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U. S. Department of Agriculture.



NEW
MARIGOLD
GIGANTEA

SEE PAGE 19
FOR DESCRIPTION
AND PRICES

BINDING-STEVENSON SEED CO.
Garden, Flower and Field Seed,
Poultry, Bird, Dairy and
Dog Supplies
TULSA,
OKLAHOMA

The Planter's Guide

NUMBER OF PLANTS REQUIRED TO THE ACRE

Distance Apart	No. of Plants
1 foot by 1 foot.....	43,560
1½ feet by 1½ feet.....	19,360
2 feet by 1 foot.....	21,780
2 feet by 2 feet.....	10,890
2½ feet by 2½ feet.....	6,969
3 feet by 2 feet.....	7,600
3 feet by 3 feet.....	4,840
4 feet by 4 feet.....	2,722
5 feet by 4 feet.....	2,178
5 feet by 5 feet.....	1,742
6 feet by 6 feet.....	1,210
8 feet by 8 feet.....	680

AVERAGE TIME REQUIRED FOR GARDEN SEED TO GERMINATE

Beans	5 to 10 days
Beet	7 to 10 days
Cabbage	5 to 10 days
Carrot	12 to 18 days
Cauliflower	5 to 10 days
Corn	5 to 8 days
Cucumber	6 to 10 days
Endive	5 to 10 days
Lettuce	6 to 8 days
Onion	7 to 10 days
Peas	6 to 10 days
Parsnip	10 to 20 days
Parsley	15 to 21 days
Pepper	9 to 14 days
Radish	3 to 6 days
Spinach	7 to 12 days
Salsify	7 to 12 days
Tomato	6 to 12 days
Turnip	4 to 8 days

NUMBER OF PLANTS PRODUCED FROM AN OUNCE OF SEED

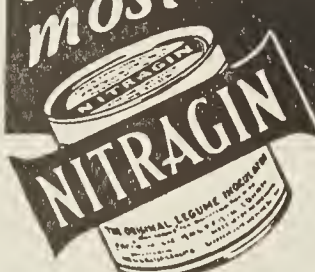
Asparagus	About 300
Cabbage	About 2,000
Cauliflower	About 2,000
Celery	About 3,000
Egg Plant	About 1,000
Endive	About 3,000
Kale	About 2,000
Lettuce	About 3,000
Pepper	About 2,000
Tomato	About 3,000

TIME REQUIRED FOR MATURITY OF DIFFERENT GARDEN CROPS RECKONED FROM DAY OF PLANTING THE SEED

Beans—String	45 to 65 days
Beans—Shell	65 to 75 days
Beet—Table	65 days
Beets—Stock	150 days
Cabbage—Early	105 days
Cabbage—Late	150 days
Cauliflower	110 days
Corn	70 to 120 days
Egg Plant	150 to 160 days
Lettuce—Heading	65 days
Melon—Water	120 to 140 days
Melon—Musk	120 to 140 days
Onion	135 to 150 days
Pepper	140 to 150 days
Radish	30 to 40 days
Squash—Summer	60 to 65 days
Squash—Winter	125 days
Tomato	125 to 150 days
Turnip	60 to 70 days
Spinach, Av. Time	45 to 65 days

QUANTITY OF SEED TO SOW A SINGLE ROW OF 100 YARDS

Asparagus	8 ozs.
Beans, Bush	6 lbs.
Beans, Lima	3 lbs.
Beans, Pole	3 lbs.
Beet	5 ozs.
Broccoli	3 ozs.
Brussels Sprouts	3 ozs.
Cabbage	2 ozs.
Carrots	3 ozs.
Cauliflower	3 ozs.
Celery	3 ozs.
Corn	1 lb.
Cress	4 ozs.
Cucumber	4 ozs.
Dandelion	3 ozs.
Egg Plant	1 oz.
Endive	2 ozs.
Leek	3 ozs.
Lettuce	2 ozs.
Melon, Musk	2 ozs.
Melon, Water	2 ozs.
Mustard	4 ozs.
Okra	3 ozs.
Onion (for large bulbs)	2 ozs.
Onion (for sets)	8 ozs.
Parsley	2 ozs.
Parsnips	2 ozs.
Peas	6 lbs.
Pepper	1 oz.
Pumpkin	2 ozs.
Radish	6 ozs.
Rhubarb	3 ozs.
Salsify	3 ozs.
Spinach	6 ozs.
Squash	3 ozs.
Tomato	1 oz.
Turnip	3 ozs.
Kchl Rabi	3 ozs.



NITRAGIN

Oldest and most Widely Used Inoculator in America

NOW SELLS FOR only 55¢ per 1 bu. size Alfalfa and Clover

DRASTIC PRICE REDUCTIONS

Lowest in NITRAGIN History

Established in 1898—The Original Legume Inoculator

Expiration Date — High Bacteria Count — Approved — Tested and Guaranteed

NITRAGIN INOCULATION PRICES

• When Ordering, ALWAYS State Name of Seed •

Culture Group "A"—ALFALFA and SWEET CLOVERS (including Hubam) and Bur Clover.

Culture Group "B"—CLOVERS, MEDIUM RED, Mammoth Red, Alsike, Crimson and White Clover.

½ bu. size 35c ea.; 1 bu. size 55c ea.; 2½ bu. size \$1.20 ea.

Culture Group "L"—All varieties of Lespedeza—Unhulled or Hulled. Unhulled requires only 1 bu. size. Hulled requires 2 bu. size. 1 bu. size 35c ea.; 2 bu. size 55c ea.; 5 bu. size \$1.20 ea.

Culture Group "S"—Soy Beans. All varieties.

Culture Group "E"—PEANUTS, COW PEAS, LIMA BEANS, VELVET BEANS, Kudzu, Crotalaria and Beggar Weed.

1 bu. size 35c ea.; 2 bu. size 55c ea.; 5 bu. size \$1.20 ea.; 10 bu. size \$1.75 ea.; 25 bu. size \$3.75 ea.

Culture Group "C"—VETCHES (Hairy, Spring, Wild) **AUSTRIAN PEAS**, Canadian Field and Garden Peas, Broad Beans, Sweet Peas and Lentils.

Culture Group "D"—Field and Garden BEANS (Navy, Kidney and Scarlet Runner Beans). ½ bu. size 30c ea.; 1 bu. size 45c ea.; 1½ bu. size (100 lb. size) 65c; 5 bu. size \$1.85 ea.; 12½ bu. size \$4.25 ea.

NEW GARDEN SIZE

For Garden Peas, Beans, Sweet Peas, Lima Beans, and Lupines. Inoculates any amount up to 4 lbs. seed. Price each.....

10¢

Remember.....
Legumes NOT Inoculated are "SOIL ROBBERS"
Legumes WELL Inoculated are "SOIL BUILDERS"

Live at Home--Plant a Garden

One acre of garden will pay better than an acre or several acres of products. Plant a garden, keep it busy every month of the year and save real money. For more than 30 years we have been selling good seeds in Oklahoma. As in the past, we will continue to supply good seeds at a reasonable price, not only because it is the fair thing to do, but because we want to merit and hold your confidence.

We thank all of our old friends and customers for their liberal patronage in the past and hope to hear from you often during the coming season.

Suggestions for Ordering

A reading of the following will prove an aid to you and to us:

OUR PRICES—Including bags, boxes, and free cartage to the depot.

The prices quoted in this catalog include free delivery on packets, ounces, quarter pounds, pounds (except where otherwise stated). "By freight or express" means that transportation charges are paid by the customer.

EARLY ORDERS—Our rush season comes in the months of March and April. Orders sent at once secure prompt shipment from our full stock.

HOW TO ORDER—Write your name, postoffice, State, and express office plainly with black ink on every order and every time you write us. Give plain express, mail, or freight directions. Where none are given, we route at buyer's risk.

MARKET GARDENERS and others who buy vegetable seed in bulk to the amount of \$10.00 or more are requested to send their list of seeds wanted to us and let us make special quotations.

PLANT ORDERS—Orders for plants will be filled as early in the spring as we consider it safe to send them. If ordered for immediate shipment in severe weather, they will be sent at purchaser's risk.

USE ORDER SHEETS—The use of order sheets enclosed in this catalog is a great help to us in facilitating filling and shipment of orders. More will be sent on receipt of postal asking for same.

ABOUT WARRANTING SEEDS—It is impractical to guarantee seeds, as the best seeds will fail under improper treatment. Some may be sown in too dry ground or too wet, too deep, or too shallow. Some hardy seeds will stand cold weather and will grow where the soil is too cold for others and would cause them to decay. Insects may attack and destroy them. For these reasons we do not give warranty in any respect, and will not be responsible for the crop.

WE GIVE "J. N." GREEN

TRADING STAMPS

Premium List on Request



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ATTENTION!

Market Gardeners, Truck Growers, Large Farmers

We urge that you go over the Catalog carefully, make up a list of seeds you need and send to us for prices.

Our years of experience in the seed business have put us in close touch with the grower, and understanding the soil and climate of this section puts us in a much better position to serve you than any outside concern.

We carry a complete line of selected and tested seeds, and can supply your wants, quality considered, at as reasonable prices as any other seed house.

We are here to serve you, and hope you will not hesitate to call upon us.

"SINCE 1906"



YOU CAN ACHIEVE RICH GARDEN BEAUTY!

You can grow beautiful lawns and flowers as pictured in this catalog. Disappointments are most often the result of half-starving or improperly feeding your plants.

Assure success by giving everything you grow a square meal of VIGORO.

Vigoro is different! It is a complete plant food that contains all of the elements plants must get from the soil instantly ready for the plant's use. Bone meal, manures, and sewage supply only one, two, or at most three elements and these must first be released for use by decay, a process that's slow in spring when plants need food most.

VIGORO
Complete plant food

PRICES:

100-lb. bag	.....\$4.00
50-lb. bag	..... 2.50
25-lb. bag	..... 1.50
10-lb. pkg.	..... .85
5-lb. pkg.	..... .50
1-lb. pkg.	..... .10

WONDERFUL FOR LAWN, FLOWERS, GARDENS, SHRUBS AND TREES



STIM-**U**-PLANT THE MAGIC PLANT FOOD TABLET

Use it and you have the largest crops of fruit and vegetables and an abundance of the largest and sweetest-scented flowers of intense and vivid colors.

Here is the secret. Science has produced a tablet that is rich in plant food, containing 11 per cent Nitrogen, 12 per cent Phosphoric Acid and 15 per cent Potash, and it is odorless and clean. Compare this analysis with that of any other fertilizer.

It is not applied broadcast but is put at the feeder roots of the individual plants, so there is no waste and you feed the plants that need it. It produces no weeds like ordinary stable manure, so it economizes in labor.

These tablets are the last word in modern garden efficiency—a proven success with rose growers, nurserymen, landscape gardeners, strawberry growers and market gardeners.

Complete directions with every package. Price, postpaid: trial size (10 tablets), 10c; 30 tablets, 25c; 100 tablets, 75c; 1,000, \$3.50.

Perfection Brand Tested Garden Seed

Every lot of Perfection Brand Seed is thoroughly tested for active, abundant, and vigorous life, so that only the most vital product is shipped. The exacting nature of these tests have won the confidence of thousands of Southwestern gardeners who plant Perfection Brand Seeds, and gladly recommend them to their neighbors and friends.



Washington Asparagus

ASPARAGUS

Asparagus is one of the first vegetables in spring, as well as one of the best grown in the garden. It is perfectly hardy, grows year after year from the same roots and never fails to produce a crop. Asparagus does well on any well-drained soil, but the best results are obtained from rich, deep, loamy soil.

WASHINGTON—Rust-Resistant Asparagus. Practically free from rust and other diseases. Stalks are large and thick; dark green with a heavy overcast of rich purple. Has a long tight, pointed bud and does not branch out until well beyond the market height. Unsurpassed in size, yield, appearance and flavor. Seed pkt., 10c; oz., 15c; ¼ lb., 35c.

ASPARAGUS ROOTS

For those who desire to raise asparagus, one of the earliest of the spring vegetables, we suggest the purchase of asparagus roots. These are ready during March, but to be sure of getting them you should reserve your stock now by sending us your order.

Our strong two-year-old roots will give the best results in the shortest time possible.

ROOTS—2-year-old, per dozen, 35c, postpaid; by freight or express, \$1.50 per 100.



GARDEN BEANS SELECTED NORTHERN GROWN

Given moisture, this crop can be planted in the South in succession until the middle of August. A good, sandy loam is the best soil for beans, but they will grow well in any soil of average richness.

The bush varieties should be planted 1½ inches deep in drills 18 inches or 2 feet apart, 2 inches apart in the drill. When the plants are well up, thin gradually to six to eight inches from each other, leaving the strongest plants as much as possible. The pole variety should be planted two or three beans in a hill, two feet apart each way. Give them clean cultivation, mellowing the soil about them, but not going too deep, hilling broad and flat about the time they are to bear. Do not hoe them when wet from dew or rain, as this induces rust of leaves or pods.

A pound will plant 100 feet of drill; 2 bushels, or 120 lbs. to the acre in drills. For a larger yield of Beans, use Nitragin. (See Inside Front Cover.)

TENNESSEE GREEN POD—This dwarf, early, intermediate snap bean is very popular in some sections of the South. The vines are large, somewhat spreading, and prolific. The pods are very long—very often 6 to 7 inches, flat, irregular in shape, bright but rather dark green, and of excellent quality. Pkt., 10c; lb., 30c, postpaid. By express, lb., 20c; 10 lbs., \$1.80.

GIANT STRINGLESS GREEN POD—This is a great improvement on the old-time popular favorite Valentine Bean. The pods are fully one-third longer, averaging 5 and 6 inches in length; absolutely stringless, very crisp, round, full and fleshy. It is enormously productive, its handsome pods being ready for market a few days earlier than the old Valentine. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.



Giant Stringless Green Pod

Keep out of bean patch when it is wet if you don't want rust.



Round Pod Red Valentine

BURPEE'S STRINGLESS GREEN POD—Splendid for market and home garden. It is stringless in reality as well as name. It is an abundant cropper and the pods are thick, round, fleshy and nearly straight. Ready for picking in 45 days. Lb., 35c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

ROUND POD RED VALENTINE—Pkg., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

FULL MEASURE—Is recommended for home, market gardening and canning. Vines grow about 15 inches, pods 6 inches, round, dark green and stringless. 63 days from planting to table. Lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

PINTO BEANS—Used as a shell bean. More prolific than the Navy Bean. Lb., 20c, postpaid. By express, lb., 15c; 10 lbs., \$1.10.

TENDERGREEN STRINGLESS GREENPOD—Exceptionally tender, entirely stringless, meaty pods that snap like icicles. The pods are 6 inches long, perfectly round. Makes in 54 days. Pkt., 10c; lb., 30c, postpaid. By express, lb., 25c; 10 lbs., \$2.00.

WHITE NAVY BEANS—Pkg., 10c; lb., 20c, postpaid. By freight or express, lb., 15c; 10 lbs., \$1.25.

GARDEN BEANS

PENCIL POD BLACK WAX—Rich yellow pods from 5 to 6 inches long; entirely stringless, very meaty and tender. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; 10 lbs., \$1.80.

IMPROVED GOLDEN—Very valuable rust-proof strain of the Golden Wax which stands drouth remarkably well. Pkt., 10c; lb., 30c, postpaid. By express or freight, lb., 20c; 10 lbs., \$1.80.

POLE OR RUNNING BEANS

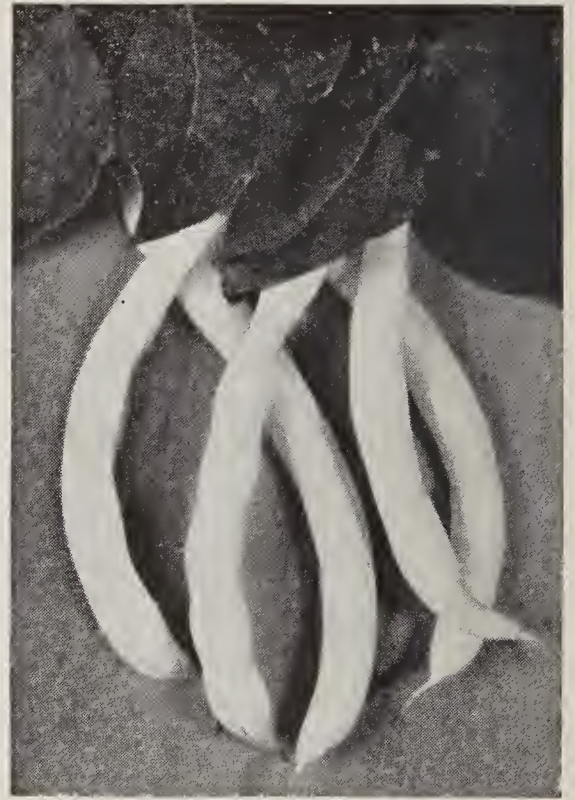
A word about Pole Beans. Many growers hesitate to plant pole beans because of the scarcity of poles. This objection is easily overcome and the greater profit in growing the pole varieties should be sufficient reason for going to a little extra care. Plaster laths will answer the purpose and cost very little.

KENTUCKY WONDER WAX—This remarkable vigorous-growing, wax-podded pole bean is very similar to the green-podded Kentucky Wonder, but the very long pods are a little broader, very fleshy, and quite stringless as snaps. Pkt., 10c; lb., 35c, postpaid. By freight or express, per lb., 25c; 10 lbs., \$2.25.

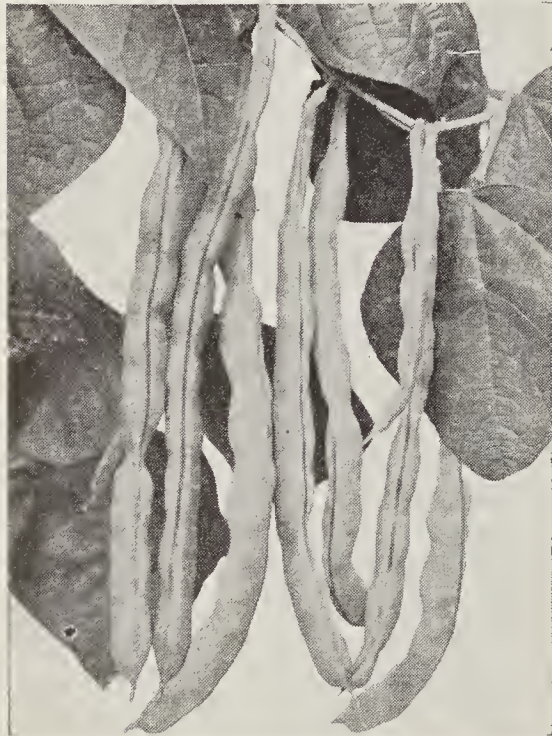
IDEAL MARKET POLE BEAN—Not only is the Ideal Market the earliest pole bean we are acquainted with, being ready for the market with the dwarf varieties, but it is one of the most productive. The long, nearly stringless, pulpy green pods are borne in immense clusters and are of delicious quality. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c; 10 lbs., \$2.25.

CUT SHORT or CORNFIELD—Green beans; resembling those of the Bush Valentine dry beans, red-speckled. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.

DUTCH CASEKNIFE—One of the earliest of the pole varieties; white seeds; used for snaps; good green or dry; a good winter sort, productive, and a good bean for planting among corn. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.



Improved Golden Wax



Kentucky Wonder

JACKSON WONDER BUSH LIMAS—It is of true bush form, about 2 feet high, bearing greatest profusion of broad, flat pods, each having from 3 to 5 medium-sized flat, handsomely speckled beans, which cook quickly and are of superior flavor. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 20c; lbs., \$1.75.

POLE LIMA BEANS

CAROLINA or SIEVA POLE—(Small White Lima)—Vigorous variety; very early and productive. Pods are short, flat and curved; beans white, small and kidney-shaped. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c.

KING OF THE GARDEN—(Large White Lima)—An improved strain of the large white, of more prolific character and with larger pods and beans. Pkt., 10c; lb., 35c, postpaid. By freight or express, 35c per lb.

SPECKLED POLE LIMA—The most prolific of the Pole Limas. Seeds are about the size of the Sieva, but are speckled white and brownish red. Pkt., 10c; lb., 30c, postpaid. By freight or express, lb., 25c; 10 lbs., \$2.00.

If you want one peck (15 lbs.) or more Beans, write for prices.

FERTILIZE LAWN WITH COMPLETE PLANT FOOD

Weeds come with spring. A few good licks put in at the first sign of spring growth will save a lot of effort later on.

Lawns fertilized with well balanced, complete plant foods will give the extra push necessary to overcome the encroachment of weeds.

OCTOBER or HORTICULTURAL—A popular and productive variety for use as snaps or as shell beans. It is especially adapted for mountainous districts or where the season is short. Per lb., 30c, postpaid. By freight or express, 20c per lb.

KENTUCKY WONDER GREENPOD—Brittle, stringless, meaty, delicious flavor. The plants are vigorous climbers; pods are borne profusely in clusters; they average from 7 to 9 inches long; are of attractive green color; round and very brittle when young. Pkt., 10c; lb., 30c, postpaid. By freight or express, 20c per lb.; 10 lbs., \$1.80.

WHITE CREASEBACK—Large, long pods, growing in clusters of from 6 to 12, of a silvery green, of the best quality of snaps. A good cornhill bean. Pkt., 10c; lb., 30c, postpaid.

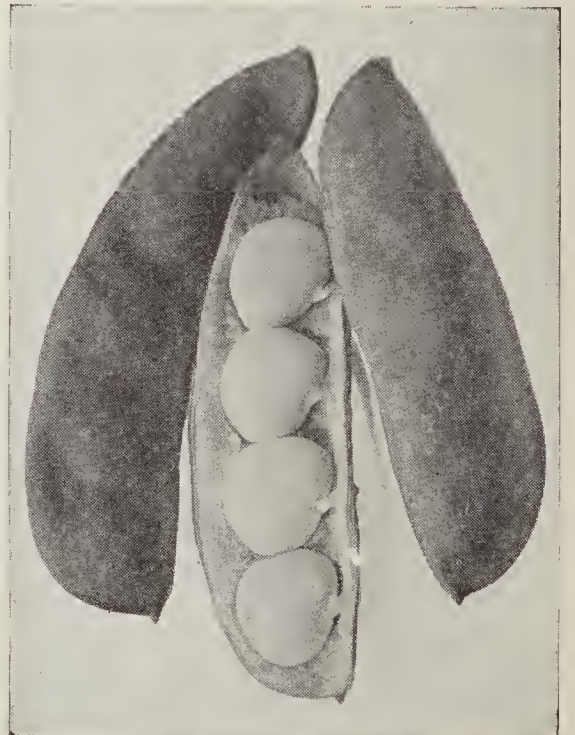
DWARF LIMA BEANS

Plant when ground is dry and weather is warm in rows 2 feet apart, dropping the beans 6 inches apart in the row, eye down, covering with 1 inch of soil. One pound will plant 100 hills.

BURPEE'S BUSH LIMA—The stout, erect bushes grow from 18 to 20 inches high and 2 to 3 feet in diameter. They are laden with large, luscious beans. Pkt., 10c; lb., 35c, postpaid. By freight or express, lb., 25c.

HENDERSON'S BUSH LIMA—This is the earliest variety, being fully two weeks ahead of any other sort in maturing. The beans are small and very fine for canning. Pkt., 10c; lb., 30c. By express or freight, lb., 20c; 10 lbs., \$1.75.

Plant a few hills of pole beans for extra heavy yield.



Henderson's Bush Lima



Crosby's Egyptian

Get plenty of beet seeds, an ounce, and plant a week and a half apart until mid-summer for baby beets. Same for carrots.

BROCCOLI

To have them early plant in a hotbed when you plant cabbage and set out when large enough; or plant outside the last of March, transplanting them 2 feet apart in rows.

ITALIAN GREEN SPROUTING—This variety develops in about 90 days, producing a large head, like cauliflower, consisting of a compact cluster of bluish-green flower heads. When the central head is removed the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served like cauliflower. Pkt., 10c; oz., 50c, postpaid.



Swiss Chard

Perfection Brand Delicious Beets

Beets grow in moderately light, sandy soil. For very early crops, sow Crosby's or Eclipse in hot-beds and transplant the seedlings as soon as the weather is warm enough into open ground; for regular crop, plant outside as soon as the ground is in good condition; plant in drills 12 to 15 inches apart and cover about 1 inch deep. When the seedlings are 4 to 5 inches high, thin them out to stand 4 to 5 inches apart in the row. An ounce of seed will sow 50 feet of drill; 5 to 6 pounds to the acre.

EARLY WONDER—A very early dark red beet similar to Crosby's Egyptian. Its earliness and deep color make it a favorite with the market gardeners. The taproots are small and the roots are of a desirable shape for bunching. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 80c, postpaid.

DETROIT DARK RED—Very popular sort used extensively by market gardeners as well as private planters. It matures early, and the roots are of splendid shape and good color. The tops are small and upright-growing, which makes possible close planting. The roots are globular and smooth, the skin is dark blood red, the flesh red with lighter zones. The beets are very tender, firm and crisp, and remain so for a long time. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 80c, postpaid. By freight or express, 70c per lb.

EARLY BLOOD TURNIP—Coming in at the same time as the small flat Egyptian, it is much larger and almost globe-shaped—a much better beet for every purpose. It is fine-grained, very tender, and of good, sweet flavor. The color of the flesh is a rich red, tinged with crimson. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 75c, postpaid. By freight or express, 70c per lb.

CROSBY'S EGYPTIAN—The market gardener's favorite. Fine, globe-shaped roots. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 80c, postpaid. By freight or express, 70c per lb.

EARLY FLAT EGYPTIAN—The best variety for first early crop. Roots dark red, rounded on top, flat underneath. Small tops. Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., 75c, postpaid.

ROOT CROPS FOR STOCK AND POULTRY

Mangel Wurzel are listed under Farm Seeds. See page 33 of this catalog.

SWISS CHARD OR SPINACH BEET

Swiss chard is the best "greens" follow-up for spinach, and will stand the hot weather without losing its crispness.

This delicious and useful vegetable should be in every garden and on every market stall. It is really two distinct vegetables. First the leafy part of the foliage is cooked and served the same as spinach, while the stalks are cooked and served with drawn butter, like tender asparagus. It grows about 2½ feet high. The stalks are thick and broad like rhubarb; the leaves are large and heavily crumpled, like Savoy Spinach. Crisp and tender, pleasing flavor. Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 85c, postpaid. By freight or express, 75c per lb.

A row of Swiss chards will keep the table supplied all summer if the plants are given opportunity to develop by being spaced 8 inches apart. The leaves should be cut and allowed to grow again for a continuous supply. It is not necessary to pull the entire plant up as with the beet root. They will grow even in partially shaded spots and give a fine supply of "greens" even in rather poor soil. The better the soil the better the leaf growth.

BRUSSELS SPROUTS

Brussels Sprouts are a very delicate vegetable, and deserve a more general cultivation than they receive. The plant belongs to the cabbage family and should be grown and cultivated like miniature cabbages. Very hardy; improved by frost. An ounce will produce 2,000 plants.

DWARF IMPROVED—Bearing a small crop of small, solid, and tender heads. Pkg., 5c; oz., 15c, postpaid.

CRESS

Sow curled or pepper grass thickly in shallow drills every two weeks. It should be cut often, and will continue to grow. Useful for salad and garnishing.

EXTRA CURLED or **PEPPER GRASS**—Quick-growing and crisp, pungent flavor. Does well in dry soil. Pkt. 5c; oz. 20c.

CORN SALAD

CORN SALAD—Use for "Greens" like Spinach or as a salad. Can be sown in the spring and fall. Succeeds best when sown in the early spring and in August. Can be sown in September and wintered like Spinach if given a little protection.

Large Round Leaved—The best variety. Matures in 4 or 5 weeks. Pkt. 5c; oz. 15c; ¼ lb. 35c.

DILL

Every year there is such a demand for green dill that the supply is short of the demand. Plant in any quantity, from ten feet square to fifty feet square, but not more. Make several plantings to have it for market almost constantly and sell what you can of the green dill and dry the balance. First planting may be made about May 1st. Packet will plant three feet square; an ounce will plant 10 by 15 feet. Pkt. 10c; oz. 20c.

Dear Sir: I will enclose 40c in 2c stamps for which please send me that amount in Red Top Globe Turnip Seed. Mr. Napier, on my farm, says he has never been able to get the Red Top from any one but you. With my kindest regards and best wishes for you. I am, yours very truly,
C. H. BOYD.

Perfection Brand Tested Cabbage Seed

Soil for Cabbage should be a rich heavy loam, with good drainage. Such a soil when supplied with a liberal quantity of stable manure and complete fertilizers will produce excellent crops.

EXTRA EARLY VARIETIES

TRUE EARLY JERSEY WAKEFIELD—Small, cone-shaped head; matures in from 90 to 100 days after planting. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.

CHARLESTON WAKEFIELD—Selection from Early Jersey Wakefield, only it is about one week later than that popular variety, and grows larger heads. Very solid and of fine quality. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.

COPENHAGEN MARKET—The earliest large round-headed cabbage. Very popular with market gardeners. An extra early summer cabbage, matures fully as early as the Early Jersey Wakefield, but produces larger heads, often averaging 10 pounds or more. The heads are ball-shaped, mild and firm, with small core, and of splendid quality. Leaves are of light green color, tightly folded together, forming a very compact head. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 60c.

GOLDEN ACRE—Very early, of the Copenhagen type, flat head, but about eight days earlier than the Copenhagen. This extra earliness assures higher prices for the market gardener—and more tender, more crisp, and better flavored cabbage for the table. Pkt., 10c; oz., 20c; $\frac{1}{4}$ lb., \$1.00, postpaid.

SECOND EARLY VARIETIES

EARLY FLAT DUTCH—A selected strain; forming large flat heads. weighing at times 10 to 12 pounds. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.

ALL SEASONS—One of the best of its class. The heads are fine, solid and of good flavor. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.



Early Flat Dutch

SLUG SHOT kills cabbage worms, also cucumber, melon, squash, and potato bugs. Contains nothing in the least injurious. 5-lb. pkg., not prepaid, 85c.

PREMIUM LATE FLAT DUTCH—Of good flavor and very tender; among the earliest of the winter cabbages. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c.

SUREHEAD—Strain of flat Dutch; remarkable for its heading qualities; keeps well and is good for shipping. The heads are of uniform size, firm and of good color. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.

MAMMOTH RED ROCK—The best red cabbage for pickling or table use. Pkt. 10c; oz. 30c; $\frac{1}{4}$ lb. 75c, postpaid.

PE-TSAI CHINESE OR "CELERY" CABBAGE—Pe-Tsai produces beautiful, crisp, celery-like heads that blanch easily and resemble a giant Cos lettuce. As a salad, it rivals the finest lettuce, while cooked like cabbage or spinach it makes delightful "greens". Early sowing is not recommended, as during hot weather it has a tendency to run to seed without heading. Sow seed in any good soil the first of August, making rows 24 to 36 inches apart and thinning to 15 inches apart in the row. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 50c, postpaid.

COLLARDS

GEORGIA—An old stand-by in the South. For winter greens it has no equal; not in the best condition until touched by frost. Sow in July or August, transplant in rows, setting them 2 feet apart. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 35c, postpaid.

You need tape lines, stakes, plant labels for garden operations. Get them in and have them handy.

See page 34.

CAULIFLOWER

It requires a cool, moist season for its best growth, a constant supply of soil-moisture, and rich, loamy land, well fertilized. Cultivation is the same as cabbage. One ounce will produce from 800 to 1,000 plants.

EARLY SNOWBALL—Under favorable conditions every plant produces a magnificent white head of fine quality. Pkt. 10c.

CELERY

Seed should be sown in February in hot-beds or in flat boxes filled with clean, mellow loam, with about one-eighth inch of fine soil or sand, pressing it down firmly. Keep the soil moist constantly. When plants are fairly out of the seed leaf, transplant into another box or bed, or thin out to 2 or 3 inches apart. Plant into the open ground by the last of May or the beginning of June. One ounce will sow 300 feet of drill.

WHITE PLUME—The earliest and most easily blanched sort. While the inner stalks and heart are of pure white color without being blanched, yet the outer stalks should be tied up and the soil drawn around them, so as to produce attractive bunches. Pkt. 10c; oz. 30c.

GOLDEN SELF-BLANCHING—The plants are compact, semi-dwarf habit and form numerous stalks. They are heavily ribbed, of golden yellow color, very crisp and tender. Pkt. 10c; oz. 40c.

CELERIAC, or TURNIP-ROOTED CELERY—Pkt. 10c.



Charleston Wakefield



Georgia Collards

Perfection Brand Improved Carrots

Carrots grow best in rich, deep sandy loam, well pulverized and deeply cultivated. Sow in March or April, in drills 15 to 18 inches apart and about one-half inch deep, thinning out the seedlings to 4 inches in the row. One ounce will sow 100 feet of row; 3 or 4 pounds to the acre.



Danvers Half Long Carrots

CARROTS

EARLY SCARLET HORN—This variety is the first ready for the table in the home garden. The tops are small, dark green. The orange-red roots are short and top-shaped, and when picked while young they are very tender. Pkt., 5c; oz., 20c; $\frac{1}{4}$ lb., 40c; lb., 95c, postpaid.

DANVERS HALF LONG—An excellent market variety of medium size. The roots are of a rich orange-red color, smooth, and very handsome. Produces a very large crop. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 95c, postpaid.

LONG ORANGE—The best late variety for general field culture. It keeps very well, and is therefore excellently adapted for winter use. Pkt., 5c; oz. 20c; $\frac{1}{4}$ lb. 40c; lb. 95c, postpaid.

OXHEART, or GUERANDE—Of fine table qualities. It is the most desirable sort for growing in soils too hard and stiff for the longer varieties, as it does not grow over 6 inches long, and is easily pulled by hand. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 40c; lb. 95c, postpaid.

EARLY CHANTENAY—A fine bunching carrot. One of the best early sorts, maturing between the Oxheart and Danvers. The carrots grow about 6 inches in length, stump-rooted, very smooth, deep red, fine-grained, sweet and sugary. Market gardeners should grow these for their main early crop. Pkt. 5c; oz. 20c; $\frac{1}{4}$ lb. 40c; lb. 95c, postpaid.

RICE'S CORLESS—The most strikingly handsome early carrot we are acquainted with. Roots are deep orange in color, exceptionally smooth, cylindrical in form, 6 inches in length by $1\frac{1}{2}$ inches in diameter. Free from woody heart or core and of the highest quality. Pkt. 10c; oz. 20c; $\frac{1}{4}$ lb. 50c, postpaid.

PERFECTION BRAND ENDIVE

ENDIVE FOR GREENS AND SALADS—Culture: For late spring and summer use, sow the seed in open ground during February or March. For fall use sow in July or August. Requires about 60 days to make a crop. This is a fine salad crop for your garden, and the leaves are used for garnishing and flavoring soup. Use a packet to 25 feet of drill.

IMPROVED GREEN CURLED—Finely fringed leaves of bright green color; tender and crisp when blanched. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 40c, postpaid.

PERFECTION BRAND EGG PLANT

Seed should be started in February, in boxes in the house. Always keep the ground warm and moist, and protect the young plants. Transplant into a rich, loamy soil when all danger of frost is past. One ounce will produce about 1,000 plants.

NEW YORK IMPROVED PURPLE—One of the best and largest varieties in cultivation. The plant is robust, low-growing, branching freely, and bears long, oblong-shaped fruits. Pkt. 10c; oz. 75c, postpaid.



Black Beauty Egg Plant



Kohl-rabi

BLACK BEAUTY—Ten days or two weeks earlier than the preceding, with fruits just as large, of a uniform and rich, lustrous black color. Pkt. 10c; oz. 75c, postpaid.

KALE OR BORECOLE

Loose, curly leaved type of the cabbage family; particularly noted for its hardiness. It makes excellent tender greens for winter use. In the South the hardy variety remains in the open ground all winter. Cultivated the same as cabbage. One ounce of seed is sufficient for 200 feet of drill.

EARLY CURLED SIBERIAN—The plant is dwarf, spreading, and very hardy, standing the winter without protection. The leaves are green, slightly tinted with purple, and of superior quality. Oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 75c, postpaid. By express, 50c per pound.

KOHL RABI

Grown for its thick, bulb-shaped stalks, which, while young, are prepared in the same manner as turnips, and which furnish a most desirable vegetable. Sow the seed in the spring in drills half an inch deep and two feet apart and when plants are a few inches high thin to 15 inches. Cultivate the same as for beets. One packet will sow about 30 feet in drill.

EARLY WHITE VIENNA—Pkt. 5c; oz. 15c, postpaid.

EARLY PURPLE VIENNA—Pkt. 5c; oz. 15c, postpaid.

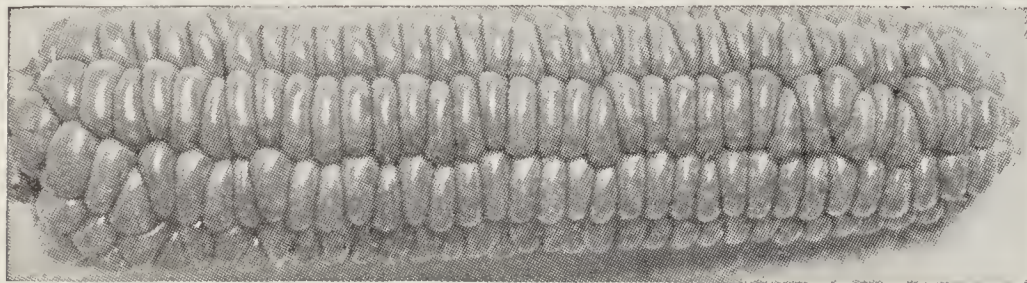
HORSERADISH

Grown for its roots, which have a pungent mustard-like flavor. Small pieces of roots, 4 to 5 inches long, are planted for propagation. Plant in rich ground—the richer the better. 35c per dozen; \$2.50 per hundred.

Perfection Brand Sweet Corn

Corn, like anything else well worth having, takes a little care to produce. A few rows of corn will supply the average home with plenty of fine roasting ears and enough over for canning and drying to last through the winter. Be sure and plant Sweet Corn every ten days or two weeks and you will have a continuous supply of table corn in the right stage to enjoy the eating of it. A rich, warm soil is the best, but excellent Sweet Corn can be raised on any good, ordinary soil, if it is deeply and thoroughly worked before planting. One pound of seed will plant about 100 hills.

Our Sweet Corn is grown in Ohio by the most reliable grower and breeder of high grade Sweet Corn seed in the United States.



Barden's Wonder Bantam

ADAMS EXTRA EARLY—A great favorite with those who wish the first corn of the season. Produces short ears, filled with tender, white kernels of fine flavor. Pkt. 10c; lb. 30c, postpaid.

GOLDEN EVERGREEN—A cross between the well known Golden Bantam and Stowell's Evergreen. A corn that has the color and deliciously sweet flavor of the Bantam and the evergreen habit and tenderness of the Stowell's. The ears are larger than the Bantam, with Evergreen type of ear, with 14 to 18 rows of deep, sugary, rich yellow grains. Pkt., 10c; lb., 30c, postpaid.

GOLDEN BANTAM—A new early sweet corn, considered by many people the richest and sweetest of all corns. Some of our customers who prefer this sort to all other kinds are planting it at regular intervals all during the season, so they may have a continued supply for their table. The stalks are of medium size, with heavy foliage, for forage. The ears are borne two to a stalk about 6 inches in length and are eight-rowed. The kernels are of golden yellow color, which at first gives the impression of field corn. However, as soon as tasted there is immediately a call for more. Pkt. 10c; lb. 35c, postpaid.

BARDEN'S WONDER BANTAM—An eight-row corn that is a decided improvement over the Golden Bantam. Has all the toothsome qualities of looks and taste, but the ears are larger (eight to ten inches long), and set up higher on a more sturdy stalk, from 5 to 6 feet high. It is as early as the Golden Bantam, more vigorous and productive. Our stock of seed is direct from the originator. Pkt. 10c; lb. 35c, postpaid.

Ask for quantity prices on Sweet Corn.

Perfection Brand Improved Cucumber

Plant as soon as the weather has become settled and warm, in hills 4 feet each way. Cucumbers succeed best in warm, moist, rich, loamy soil. Prepare the hills by mixing a shovelful of well-rotted manure with the soil; plant the seeds about half inch deep. When all danger of insect attack is over, thin to about three or four of the strongest plants to the hill. Do not allow any fruit to ripen on the vines, as this will cause them to stop bearing.

EARLY FORTUNE—One of the best cucumbers for the market. Fruit is slightly tapering and about nine inches long. The firm, crisp, thick flesh is very white and has very few seeds. Early Fortune has a rich, dark green color which does not fade when shipped to distant markets. The vines are vigorous, very productive and blight resisting. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$1.75, postpaid.

JAPANESE CLIMBING—The strong vines, throwing out numerous tendrils, can be trained upon a trellis or poles, which will insure earlier ripening and a straight, handsome form in the large fruits. Pkt. 5c; oz. 20c, postpaid.

CHICAGO PICKLE—Largely used by pickle manufacturers. Prolific, short, with fruit of medium size, dark green color, and with prominent spines. Pkt. 5c; oz. 20c; ¼ lb. 60c, postpaid.

IMPROVED KLONDIKE WHITE SPINE—The vines are very vigorous and productive; the fruit is of an attractive, deep glossy green color, with light spines running from

blossom end. Most desirable for the market use. Pkt. 5c; oz. 20c; ¼ lb. 60c, postpaid.

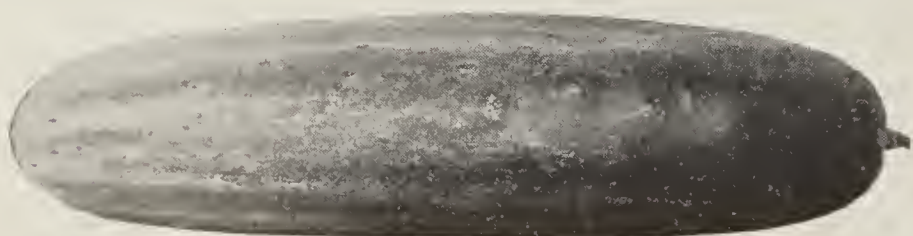
EARLY CLUSTER—Extra prolific sort; setting its fruits in clusters of two or three. The fruit is a dark green, short and particularly suitable for pickles. Pkt. 5c; oz. 20c; ¼ lb. 50c, postpaid.

WEST INDIA GHERKIN—A very prolific, small fruited variety, used exclusively for pickling. It is not properly a cucumber, and is of no value for slicing. The fruits are 2 to 3 inches in length, thick and rounded, closely covered with spines. Pkt. 5c; oz. 20c; ¼ lb. 60c.

IMPROVED LONG GREEN—Most widely cultivated sort; unsurpassed for general use. The cucumbers average 10 inches long when fully developed, and are fine for slicing. The smaller fruits make excellent pickles. Pkt. 5c; oz. 30c; ¼ lb. 80c; lb. \$2.50, postpaid.

LONGFELLOW—Particularly valuable for shipping. Fruits handsome; extremely dark green over entire surface; retains color remarkably long after picking; white spine; 12 to 14 inches long, 2½ to 2¾ inches thick. Straight, well filled at ends. Very few seed. Matures in 74 days. Pkt., 5c; oz., 20c; ¼ lb., 45c, postpaid.

THE DELTUS—A fine new slicing variety. The long, smooth-skinned fruits are very dark green, with white stripes at the blossom end. The flesh is ivory-white, deep, and very few seeds. Matures in 70 days. Pkt. 10c; oz. 25c; ¼ lb. 50c, postpaid.



Longfellow

Perfection Brand Lettuce



Early Curled Simpson

PARIS WHITE COS—The Cos lettuce differs entirely in shape from the other varieties, the head being elongated and of a conical form, 8 to 9 inches in height and 5 to 6 inches in diameter. Pkt. 10c; oz. 20c; ¼ lb. 50c, postpaid.

EARLY CURLED SIMPSON—Forms close, compact bunches of effectively curled leaves. Pkt. 5c; oz. 15c; ¼ lb. 40c, postpaid.

NEW YORK—A favorite variety. Heads very large, heavy and compact. Has a vigorous root system, which enables it to stand hot weather better than other varieties. The interior is beautifully blanched, creamy white, crisp and tender, and free from any bitterness. Pkt. 10c; oz. 25c; ¼ lb. 65c, postpaid.

Lettuce is a cool-season crop that must grow fast in order to be crisp and fresh when ready for the table. Sow seed as early as possible in rich soil, for there is no better crop than the first in the spring.

IMPROVED HANSON—One of the best for growing during the hot summer months, as it will stand heat and dry weather to perfection. Light green color outside and white within; tender, crisp. Pkt. 5c; oz. 15c; ¼ lb. 35c, postpaid.

BIG BOSTON—Very distinct variety, grown largely in the South as a winter lettuce. Light green color and quite tender when well grown. Outside it is a less distinctive heading sort, the plants bearing vigorously, growing to a good size and forming loose heads. Pkt. 10c; oz. 20c; ¼ lb. 40c, postpaid.

PRIZE HEAD—The outer leaves are bright and green, shaded with brownish red. They are large and thin, attractively curled, and very tender. Pkt. 5c; oz. 15c; ¼ lb. 40c, postpaid.

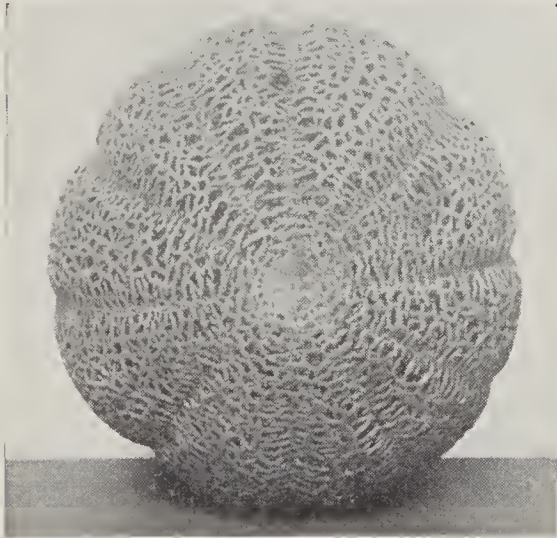
BLACK SEEDED SIMPSON—Makes large bunches of curly, crisp leaves. Pkt. 5c; oz. 15c; ¼ lb. 40c, postpaid.

GRAND RAPIDS—The well-known forcing variety for the Middle West, where the butterheads or cabbage varieties do not grow very well under glass. It is a loose-branching variety, forming no definite head; is extremely curly, and its light green color is very attractive. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.00.

CHICKEN LETTUCE—The plant grows very much like kale, to a height of four or five feet, with much growth of leaf. It is used mainly for chicken and rabbit feeding. It does not head and it is seldom if ever used for table purposes. The wonderful leaf growth makes it ideal for green food for chickens. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. 95c.

Cantaloupes or Muskmelons

A warm, sandy loam is best for raising melons. Plant early in the spring, 8 seeds in each hill. After they are well started thin to about 3 plants to each hill. An ounce will plant 60 hills; 2 or 3 pounds to the acre. We strive to supply melon seed of the highest quality. We have them grown where they reach the highest point of perfection by the most reliable growers, and are in a position to offer strains far superior to the commonly sold commercial grades. Many testimonials from thoroughly pleased customers show that our efforts to supply only the best are appreciated.



Hearts of Gold

HONEY DEW MELON—The fruits are of medium size, round or slightly oval, 5 to 6 inches in diameter and weigh about 6 pounds each. Flesh light emerald green, fine grained and of very sweet, sugary flavor. Rind thin but very firm and the fruits stand shipping remarkably well. If picked shortly before mature the fruits will keep for several weeks. Matures about two weeks later than Rockyford. Pkt. 5c; oz. 20c; ¼ lb. 50c; lb. \$1.25.

OSAGE, or MILLER'S CREAM—One of the finest and most popular salmon-fleshed Muskmelons. The fruits are large, usually nearly three times the size of the Rocky Ford, with skin moderately netted and of oblong shape. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.10, postpaid.

ROCKYFORD—This is the melon that made Rockyford famous. The flesh is green, very deep, solid and sweet, and can be eaten close to the rind. The seed cavity is very small. Pkt. 5c; oz. 15c; ¼ lb. 45c; lb. \$1.10, postpaid. By freight or express, lb. 90c; 10 lbs. \$8.00.

HEARTS OF GOLD—This melon runs very uniform in size and is a splendid shipping variety. The melons are oval to oblong in shape and are a little larger than the Rockyford. While it is a ribbed melon the ribs are not prominent and the melons are very heavily netted. The flesh is rich orange color, fine grain and of excellent flavor. Seed cavity is small. It doesn't turn yellow when ripe, but retains its natural green color and remains solid and firm for days after it is picked from the vine. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.40, postpaid.

PERFECTED PERFECTO—Undoubtedly the "last word" in the Rockyford type of shipping cantaloupe. It has commanded the highest price in every market. Its appealing, deep orange flesh is its distinctive characteristic; the flesh is most solid, with the smallest seed cavity of any type. The fruits are remarkably uniform in size and shape, nearly round, densely covered with hard gray netting. The rich, deep orange flesh is fine grained, ripening close to the rind, juicy, melting, wonderfully sweet and of spicy flavor. It is an outstanding early market variety, highly recommended for its hardness, prolificness, deep rich orange-tinted flesh, unexcelled eating and shipping qualities. Pkt. 5c; oz. 15c; ¼ lb. 50c; lb. \$1.40, postpaid.

NEW EARLY IDEAL NO. 9-36—The vines are of medium size but healthy and vigorous. It is very prolific, first set unusually heavy. The melons run mostly jumbo in size and oval in shape, practically all solid net. The flesh is a deep salmon, firm, fine grained. It has a smaller seed cavity than the other early strains which with deep colored flesh indicates a cross with Perfecto. It has an excellent flavor and is a fine shipper. First melons are ripe within 80 to 90 days. Our seed is grown in the Rocky Ford district and taken from crown set melons, hand cut. Pkt., 5c; oz., 15c; ¼ lb., \$1.40, postpaid. Write for quantity prices.

IMPROVED BANANA—Produces fruit of the finest quality, 1½ to 2½ feet long; rind thin and comparatively tough; flesh of a beautiful reddish salmon color, of excellent flavor; withstands the heat to perfection; fine for family use. Pkt. 5c; oz. 20c; ¼ lb. 50c, postpaid.



Perfecto Cantaloupe

Perfection Brand Delicious Watermelon

Our watermelon seed is grown especially for us in the South and selected from the very best melons. Southern-grown watermelon seed is always the best and the quality of the melons the very highest, as has been proven. A trial order will convince you our seed is first-class in every respect.

IRISH GRAY WATERMELON—A light green colored melon with white seed. The Irish Gray, with its exceptionally hard rind, will stand shipping as good or better than any other watermelon. In addition, the quality is excellent, not tough and stringy as are some of the other long distance shippers. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. 80c, postpaid.

DIXIE QUEEN—A new round melon of striking appearance. Light and dark green striped. Very showy. Thin, tough rind; flesh bright scarlet, solid, of fine texture. Quality unsurpassed. Seed very small, white. Vines very vigorous, prolific. Melons uniform in size and appearance, 30 to 40 lbs. Destined to become a leader for home gardens, local markets and shipping. Has fewer seed than other varieties. Pkt. 5c; oz. 15c; ¼ lb. 60c, postpaid.

SMITH WATSON—Grows in shape and size about the same as the regular Watson, but has distinct markings in the form of irregular stripes. A good shipper and eating quality, considered better than other types of Watson. Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. 90c, postpaid.

EARLY DELICIOUS—This is one of the best quality melons of the entire list, grows to a fair size, round, dark green, thin rind with red sweet flesh. Two weeks ahead of common melons. Small seed. Pkt., 10c; oz., 20c; ¼ lb., 40c, postpaid.

IMPROVED KLECKLEY'S SWEET—One of the earliest, best and sweetest flavored melons in cultivation. On account of its thin rind, it will not stand shipment to distant markets, but it is the best that can be grown for the home and near-by markets. The skin is dark green. The flesh is scarlet, firm, solid and of delightful flavor. Pkt. 5c; oz. 10c; lb. 80c; 10 lbs. \$7.00, postpaid.

HALBERT'S HONEY—A Texas melon which closely resembles Kleckley's Sweet, but darker color and even and regular in shape. Cannot be shipped a great distance, as the rind is very brittle, but it is unsurpassed for home market and family use. It grows from 15 to 30 inches long, is dark green, slightly ridged, and blunt at the blossom end. The meat is as sweet as honey, melting, and leaves no trace of pulp. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c, postpaid.

TOM WATSON—The most popular shipping melon grown. The melons are large, long and dark green, like Kleckley's Sweet, but with a tougher rind, giving it excellent shipping qualities. The flesh is a rich red, solid, sweet, and luscious, and ripens up close to the rind. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c; 10-lb. lots, \$6.00, postpaid.

NEW WONDER—It is all its name implies. Is well adapted to Southern conditions and for a shipping melon it can't be beat. The rind is tough and will withstand rough handling in transit, besides being a heavy cropper. It is a large, long, dark green melon, faint stripes, making a quick seller on the market. Flesh red, very crisp, solid and early. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 80c, postpaid.

ARNELL WATERMELON—Originated by Mr. Arnell of Tulsa County. The rind is mottled greenish gray, flesh red and of excellent quality. The rind is tough, making an excellent shipping melon, is productive and uniformly oblong in shape. Price, 15c per oz.; ¼ lb. 40c; ½ lb. 75c; lb. \$1.25, postpaid.

STONE MOUNTAIN—While this melon is rather new it is fast becoming a great favorite in many sections of the South, Middle West and Southwest. It grows large; rather round in shape and dark green in color. The flesh is a deep red, has but few seeds and the flavor is all that could be desired. Pkt. 5c; oz. 10c; ¼ lb. 30c; lb. \$1.00, postpaid.

WRITE FOR PRICES ON
LARGER QUANTITIES



Stone Mountain



Improved Kleckley's Sweet

Oklahoma, 1936.

Dear Sirs:

I have been a customer of yours for five years and have always found your seeds and plants to be just as good or even better than advertised.

Please send me at once—etc.

(Signed) MRS. GEO. D. WARD.

PORTO RICAN—A golden fleshed melon, very tender and has a most delicious flavor. It is medium early, of large uniform size, oblong shape. This has no hard core or stringy sections. Pkt. 10c; oz. 20c; ¼ lb. 50c, postpaid.

SOILTEX

A test for acid soil—tells how much lime your soil requires. Avoid mistakes by adding too little or too much lime by using SOILTEX—a money maker and a money saver for farmers. Full directions with every package. Price, \$1.00 a tube, parcel postpaid.

DON'T BUY COMPLEXION, EAT IT, CHEMISTS SAY

The home garden is no friend of the beauty specialist where complexion is concerned, scientists tell us, because the properly balanced diet containing vitamin and mineral fresh vegetables will give nature its chance to do what was intended, bring health to the body, and with it, a good complexion.

Vegetables are not the only foods to produce such results, of course, but they are the "deficiency" types which supply the hidden food elements lacking in so many other modern table delicacies. The fact that they are grown at home and can be used fresh from the garden without the loss brought about by being kept out of the ground, makes them doubly valuable for the health and complexion seeker.

Perfection Brand Mustard—for Health

Mustard is grown for greens and requires a loamy, rich soil, preferably a sandy loam. It is sown either broadcast or in drills; if it is sown broadcast about 8 quarts of seed are required per acre, if in drills, 3 pounds per acre.



Mustard Spinach

MUSTARD SPINACH—Sometimes known as Tender Greens. This new vegetable, which is all its name implies, is a very mild mustard with a creamy spinach flavor. Mustard Spinach grows fast. The leaves are ready for cutting three to four weeks after planting. Dry, hot weather does not injure the crop. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 25c; lb., 70c, postpaid.

SOUTHERN GIANT CURLED MUSTARD—Long Standing type. This is a decided improvement over the old curled mustard as it will stand ten to fourteen days later before bolting to seed. Pkt., 5c; oz., 10c; lb., 50c, postpaid.

OSTRICH PLUME—Most beautiful variety and of very superior flavor. The leaves are beautifully ruffled and curled and curve outward like graceful ostrich plumes. They are excellently adapted for garnishing. Pkt., 5c; oz., 10c; lb., 55c, postpaid.

ELEPHANT EAR—Desirable kind. Each plant produces extra-large leaves of good substance and of most appetizing pungency. It succeeds well also from spring sowings, but does not make so large a plant during the warm summer as it does in the cooler fall or winter months. When they are grown in rich soil, the leaves attain sixteen to twenty inches in length; they are of light green color, with large white ribs or leaf stalks. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 60c, postpaid.

FLORIDA BROAD LEAF—Plants are rather tall and upright growing, and produce considerable more leaf growth than other varieties. The leaves are large, broad, comparatively smooth and have broad, distinct midribs. This variety is quite distinct in that it stays in condition without bolting to seed considerably longer than most other sorts. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 60c, postpaid.

OKRA, OR GUMBO

The young, tender seed pods of this plant are used for flavoring soups, stews, etc. They are regarded as a household necessity in the South, but are neither so well known nor so extensively used in the North. Seed should be sown when the weather has become settled, in drills 3 feet apart. Thin out the plants so they will stand from 1 to 2 feet apart in the rows. Gather the pods while they are young, as they will become tough and woody when they grow older. One ounce will sow 100 feet of drill.

PERKINS' MAMMOTH LONG-PODDED OKRA—Pods shoot out from the stalk within 3 inches of the ground and the whole plant is covered with them to its extreme height. Pods are an intense green color, 9 to 10 inches long, very slim, and do not get hard. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c.

DWARF GREEN—Bears pods ready for use ten days or two weeks earlier than the tall sorts. The plants are of dwarf, stocky growth, and are very prolific. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c, postpaid.

WHITE VELVET—Tall-growing sort, with attractive long white pods, which are round and of velvety smoothness. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 20c, postpaid.

DWARF LONG POD—Bears in 50 days. Grows three feet high, strong

stocky plant, sending out many branches. Very productive. Leaves and pods are dark green. Pods are 5 to 7 inches long, slender, corrugated and of excellent quality. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c, postpaid.



Okra—Dwarf Green



Onion Plants

ONION SETS

We Will Gladly Quote Prices on Large Quantities.

BERMUDA ONION PLANTS—Yellow, 25c per 100, postpaid.

DARK RED SETS—Lb., 30c, postpaid; by freight or express, not prepaid, lb., 20c.

YELLOW SETS—Lb., 30c, postpaid; by freight or express, not prepaid, lb., 20c.

WHITE SILVERSKIN SETS—Lb., 30c, postpaid; by freight or express, not prepaid, per lb., 20c.

WHITE MULTIPLIER SETS—They are of a pure silvery-white color, enormously productive, frequently producing as many as twenty shoots for bunching from one bulb planted; of excellent quality and size for bunching. Lb., 40c, postpaid; by freight or express, 30c per lb.

GARLIC

Used for flavoring soups, sausage, etc. It is propagated by division of the roots into small parts. The bulbs are gathered in August in the same manner as onions. $\frac{1}{2}$ lb., 25c; lb., 45c, postpaid.

Perfection Brand Onion Seed

One ounce will sow 100 feet of drill, 4 pounds will sow an acre. We pride ourselves on selling the very best onion seed that can be produced, and are now supplying some of the largest onion-growers in the country. By sowing our seed, large onions can be produced direct from the seed.

CULTURE—Sow in the early spring, in moist soil, as soon as the weather will permit, in rows 12 inches apart, and cover half inch deep. If the onions grow too thick, thin to 1 inch apart, or only a very few onions will be the result. Manure highly (twenty loads to the acre being used by many market gardeners with profit), and if manure is not plentiful, some good phosphate, at the rate of 400 to 800 pounds per acre will give good results. A top dressing of wood ashes, applied after the second weeding, is very beneficial.

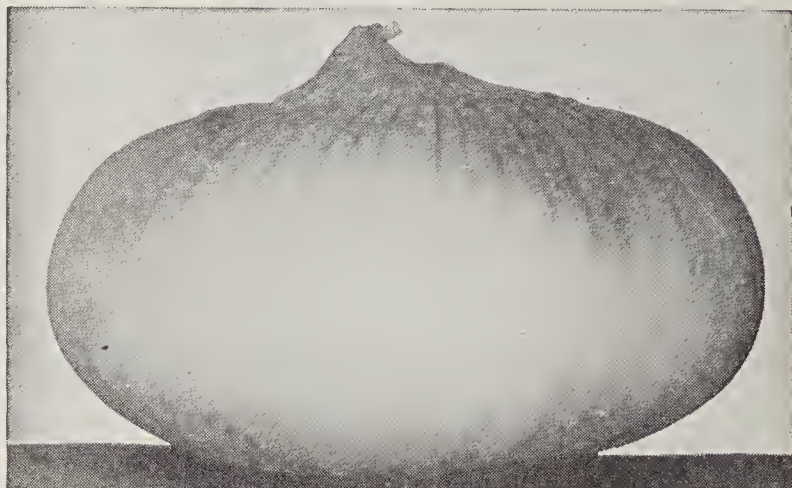
SOIL—Onions need rich loam, with a slight mixture of clay, manuring for two years previous.

MANURING—A liberal use of manure is essential and it should be of the best quality, well fermented, and shoveled over at least twice the previous summer to kill the weeds.

GIANT YELLOW PRIZETAKER—The American-grown Giant Yellow Prizetaker is far the handsomest, most productive, most popular, and best of the yellow skin onions. The flesh is pure white, firm and fine-grained, and mild in flavor. It is of immense size, sometimes measuring from 10 to 12 inches in circumference. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 90c; lb., \$2.75, postpaid.

SOUTHPORT LARGE RED GLOBE—This handsome and most red-colored of all red sorts is becoming more popular every season. It is of a rich, glossy dark red, and makes a very attractive appearance. The bulbs are remarkably uniform in size and are splendid keepers. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 90c; lb., \$2.75, postpaid.

WRITE FOR PRICES ON
LARGER QUANTITIES



Crystal White Wax Bermuda

CRYSTAL WHITE WAX BERMUDAS—Genuine Teneriffe grown. A beautiful crystal white with the decided waxy appearance. It is the earliest of the Bermuda varieties, and makes large flat onions; so mild and sweet that they can be eaten like an apple. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$2.75, postpaid.

YELLOW BERMUDA—It is a standard variety and grown in Texas in large quantities. Makes onions 3 to 4 inches in diameter; flattened in shape, but very thick, very mild and sweet. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c; lb., \$2.25, postpaid.

WHITE GLOBE—Pkt., 10c; oz., 35c; $\frac{1}{4}$ lb., \$1.25.

LARGE RED WETHERSFIELD—The most widely cultivated of the red varieties; the standard winter onion in many Northern States. The bulbs are well flattened, thick through and grow to a good size. A most excellent keeper. Pkt., 5c; oz., 30c; $\frac{1}{4}$ lb., \$1.00, postpaid.

YELLOW GLOBE DANVERS—Handsome, nearly globe-shaped bulbs of pale yellow color; crisp, pure white flesh of mild flavor. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 75c, postpaid.

VALENCIA or SWEET SPANISH—It is a large, well-shaped, brown onion, weighing from 1 to 3 pounds. It is unusually mild but still retains its genuine onion flavor. Planted at the proper time and thoroughly cured, it is a good keeper and will ship as good as any other shipping onion. It requires about 2 lbs. to plant an acre. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 90c; lb., \$2.50, postpaid.

Trust us to get the best—Wherever grown.

How often have we observed some one advertising "Northern Grown Seeds"? To infer that only "Northern Grown" seeds are safe to plant is misleading, to say the least.

The fact of the matter is, Garden and Flower Seeds are grown in all parts of the globe. Depending on where one resides, of course, some are Southern grown, others Northern, Eastern or Western. All our seeds are grown in that part of the world where most adapted.



Sweet Valencia

PARSLEY

The leaves are used for garnishing meats, fish and other dishes, and as flavoring for soups and stews. Grows in any garden soil. Seed is of slow germination and should be planted early in spring in rows 10 inches apart. A few plants will supply a family.

MOSS CURLED—Leaves are very ornamental, curled and crimped; also excellent for seasoning. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 25c.

PARSNIPS

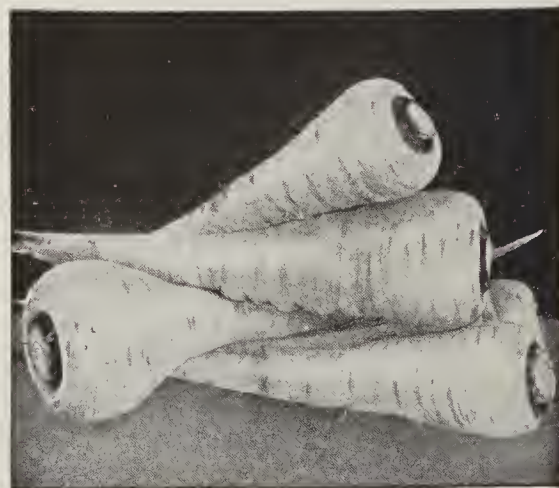
This is a hardy vegetable, used for food for both humans and stock. It is grown similar to the carrot, and requires a rich, loamy soil.

IMPROVED HOLLOW CROWN—A great cropper and considered the best for cultivation. The roots are long, smooth, tender, and very sugary. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c.

LEEK

A very delicately flavored member of the onion family. The leafy portion of the plant is used for flavoring soups or boiling with meats while the white fleshy stems are boiled and either served with cream dressing or as a salad with vinegar and salad oil. Leeks prefer a rich, light soil. Cultivate the same as onions. Filling up will blanch the stalks and improve their quality. One ounce will sow about 100 feet of drill.

LONDON FLAG—A strong growing sort, hardy and excellent for winter. Pkt., 10c; oz., 30c, postpaid.



Parsnip—Hollow Crown

Perfection Brand Garden Peas



Peas require a good, well worked garden soil. Plant as early in the spring as the ground can be worked, for the early smooth seeded varieties, in rows about 8 to 10 inches apart and 1½ inches deep. The wrinkled varieties should be planted later as they require a warmer soil. One quart of seed is required for 100 feet of drill.



Thomas Laxton

LAXTONIAN—A dwarf pea with large handsome pods very similar to the Gradus, which variety it excels in yield and earliness. Vines average 15 inches in length, and the pods 3½ inches. One of the best peas for private or commercial growing. Pkt., 10c; lb., 35c, postpaid; by express, 30c; 10 lbs., \$2.50.

LAXTON'S PROGRESS—One of the earliest large podded, dwarf peas and excellent for home or market gardening. Vines grow about 16 inches, pods 4 inches long, broad and pointed. Makes in about 60 days. Pkt., 10c; lb., 35c, postpaid. By freight or express lb., 25c; 10 lbs., \$2.25.

LARGE WHITE MARROWFAT—A very late sort that bears large quantities of well-filled pods. Pkt. 10c; lb. 30c, postpaid.

TELEPHONE—A large sort, with tall-growing vines. The pods are very large, with large peas of delicious flavor. Pkt., 10c; lb., 35c, postpaid.

PEPPERS

The young plants are raised like tomatoes or egg plant. They should be set out after all danger of frost is over and the ground is warm. Set the plants about 2 feet apart in rows 3 feet wide. One ounce of seed will produce about 1,500 plants.

PIMENTO PEPPER—It is so smooth and uniform in shape that the skin can be easily slipped off after burning over a hot fire a few seconds or by boiling a few minutes in hot water. It can also be pared like an apple by using a sharp knife. The green peppers can be pared best in this way. In quality it is very sweet and delicious and entirely free from pungency; in color, when ripe, it is a beautiful green. It is much sought and grown by canners for pickles and pulp. Pkt., 10c; oz., 30c; 2 ozs., 55c.

RUBY GIANT—A beautiful pepper, being a cross between the Chinese Giant and Ruby King. It combines the larger size and productiveness of Chinese Giant and the attractive shape and color of the Ruby King. The flesh is mild and sweet, and can be sliced and served with tomatoes. Pkt., 10c; oz., 35c; ¼ lb., \$1.00.

CHINESE GIANT—This is the largest mild red pepper in existence. The peppers are of enormous size; specimens weighing 18 ounces are found quite frequently. They are of square block form; the flesh is very thick and extremely mild. Pkt. 10c; oz. 50c; ¼ lb. \$1.50, postpaid.

LARGE BELL or IMPROVED BULLNOSE—A large early sort, with thick mild flesh. Pkt., 10c; oz., 35c; ¼ lb., \$1.00, postpaid.

RUBY KING—A very prolific popular sort bearing splendid crops of splendid large thick peppers of good quality for mangoes. Pkt., 10c; oz., 35c; ¼ lb., 90c, postpaid.

CALIFORNIA WONDER—Resembles Chinese Giant in the large size and "blocky" form of its fruit, but have an extremely thick flesh not possessed by that variety. Measures 4½ to 5 inches in length by 4 inches in diameter. Fruits are dark green, smooth in surface. The exceptionally thick flesh is mild and sweet. Pkt. 10c; ½ oz. 35c; oz. 60c, postpaid.

LARGE RED CAYENNE—Bright red fruits 3 to 4 inches long, very hot. Pkt., 10c; oz., 30c; ¼ lb., \$1.00, postpaid.

TABASCO—This is the variety which the famous Tabasco sauce is made from. The tall, bushlike growth produces a great number of small slender, very hot and fiery fruits about one inch long. Pkt., 10c; oz., 40c; ¼ lb., \$1.00.

ALASKA—The earliest smooth pea in existence. The pods are medium in size, well filled and mature practically all at one time. Our strain is extra selected. Pkt., 10c; lb., 30c, postpaid; by freight or express, lb., 20c; 10 lbs., \$1.75.

FIRST AND BEST—(Extra Early)—The vines average 18 to 24 inches in height, setting a good number of choice pods filled with choice peas of excellent flavor. Pkt., 10c; lb., 30c, postpaid; by freight or express, lb., 20c; 10 lbs., \$2.00.

LITTLE MARVEL—An extra fine dwarf sweet pea. A fine variety for either private or market garden. Extra early. Foliage and pods very deep green; pods 3 inches long, nearly round and square-ended, containing 7 very dark green peas of high quality; very productive. Pkt., 10c; ½ lb., 20c; lb., 35c, postpaid; by express, lb., 25c; 10 lbs., \$2.00.

AMERICAN WONDER—The plants grow only 10 inches high and produce an abundance of medium-size pods, which are filled with large, sweet peas of luscious quality. Pkt., 10c; lb., 35c, postpaid; by express, lb., 25c; 10 lbs., \$2.25.

NOTT'S EXCELSIOR—Of compact growth with many handsome, good-sized pods, which are closely packed with large peas of unusually sweet flavor. Matures almost as early as the American Wonder and the pods are larger. Pkt., 10c; lb., 35c, postpaid; by express, lb., 25c; 10 lbs., \$2.25.

MELTING SUGAR—(Edible Pod)—In this variety, which is the best of its class, the entire pod is cooked the same way as string beans. The pods are large, flat, very brittle and tender and fine-flavored when cooked. The vines attain a height of 4 feet and are very attractive. Pkt., 10c; lb., 35c, postpaid.

THOMAS LAXTON—A cross between Gradus and Alaska. In earliness it is two or three days behind Alaska, and in yield, far superior. The pods are larger, containing sweet, large peas of fine flavor. Vines from 30 to 35 inches. Pkt., 10c; lb., 35c, postpaid; by express, lb., 30c.



Chinese Giant

RHUBARB, OR PIE PLANT

It is grown either from seed or by propagation of the roots. The soil for rhubarb should be made extremely rich, using manure every other season. The seed should be sown early in the spring in rows 12 inches apart and 1 inch deep. Thin the plants out to stand 5 inches apart and cultivate throughout the summer. In this section of the Southwest the plants get large enough to use in the fall from seed sown the previous spring, if the season has been favorable. The roots should be planted 3 feet apart in the row and with the crown about 4 inches under the soil. One ounce of seed will sow 100 feet of drill.

VICTORIA GIANT—This is a very large and late variety with round stalks of great length and thickness; produces a succession of stalks the whole season; held high in the esteem of market gardeners. Pkt. 10c; oz. 15c; ¼ lb. 40c.

For RHUBARB ROOTS, see Page 17.

PUMPKINS

Usually they are planted in the corn field, dropping three or four seeds every fourth hill, but they do better planted by themselves. Plant about 8 or 10 feet apart each way. Put some well-rotted manure beneath each hill, thoroughly mixing it with the soil.

LARGE SWEET CHEESE, or KENTUCKY FIELD—A popular and very productive variety. The ripe fruits are flat, of a rich, creamy yellow color, and measure about 2 feet in diameter. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 30c; lb., 50c, postpaid. By freight or express, lb., 40c; 10 lbs., \$3.50.

IMPROVED GREEN-STRIPED CUSHAW—A crooked-necked variety, with green and white striped skin. The flesh is of a rich yellow color, solid, fine-grained, very thick and sweet. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c; lb., 85c, postpaid.

KING OF MAMMOTH PUMPKIN—Also called Jumbo, Mammoth Prize or Mammoth Potiron. On good ground and under high cultivation this pumpkin frequently grows to an immense size. Notwithstanding the enormous size it is one of the best pie pumpkins, having very thick, sweet flesh which cooks quite dry and tender. To grow pumpkins of the largest size it is advisable to leave only one plant to a hill, leaving only one fruit to a plant, and give pumpkin plenty of room. Pkt., 5c; oz., 15; $\frac{1}{4}$ lb., 40c, postpaid.

SMALL SUGAR—Handsome and prolific, of small size, averaging about 10 inches in diameter; skin is a deep rich orange yellow, fine-grained, sweet, dry and an excellent keeper; a nice table variety. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 75c, postpaid.

TENNESSEE SWEET POTATO—A good variety for making pies and for other cooking purposes. It is of medium size, and of a white creamy color with excellent flavor. This is a good keeper. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 35c, postpaid.



Sugar Pumpkin

Get ready for the early radishes. In rich, moist soil some of them will mature in three weeks, the quickest vegetable there is.

Perfection Brand Radish Seed

Our stock of radish seed is grown for us in Michigan. Great care is used in selecting this seed, and the quality is of the best. A trial will convince. They develop best and quickest in light rich sandy soil. Well rotted manure should be used and constant cultivation is necessary to insure radishes of good quality. One ounce will sow 75 feet of drill, 8 to 10 lbs. per acre. Plant radishes and carrots in the same row to conserve garden space.

EARLY SCARLET GLOBE—This is a splendid variety for hot-bed or greenhouse culture. We consider it the best of the round scarlet forcing sorts. The radishes mature quickly, producing small growth of tops, and are solid and crisp; very uniform in shape. The color is a handsome bright scarlet. Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 25c; lb., 65c; 5 lbs., \$3.00 postpaid.

CRIMSON GIANT—An entirely new variety and differs radically from all others, inasmuch as the roots attain more than double the size of the other forcing varieties without getting pithy or hollow. It is very early, notwithstanding its size. Color, crimson; meat, pure white and of the best quality. The seed should be sown very thinly to permit the development of the roots. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c, postpaid.

LONG SCARLET SHORT TOP—Roots grow 5 or 6 inches long and are very attractive, crisp. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 35c; lb. 80c, postpaid. By freight or express, lb. 70c; 5 lbs. \$3.25.

WHITE STRASSBURG—An excellent summer radish; withstands severe heat and grows quickly. Skin and flesh pure white, firm, crisp and tender. Can be pulled five weeks from planting, but retains its crispness even when the roots are old and large. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 80c, postpaid.

EARLY FRENCH BREAKFAST—A beautiful olive-shaped sort of bright scarlet color, with well-defined white tip; a rapid grower; very mild and tender. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 75c, postpaid.

WHITE-TIPPED EARLY SCARLET TURNIP—For outdoor sowing this is the most important sort for the market, thousands of pounds being used annually. Our stock of this is the best. Handsome bright scarlet color, with white tip. Its fine appearance attracts customers and its quality always pleases. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c, postpaid. By freight or express, lb. 65c; 5 lbs. \$3.00.

SAXA—The earliest forcing radish and one of the slowest to shoot to seed. Round, bright scarlet and with the smallest possible top. Pkt. 5c; oz. 15c; $\frac{1}{4}$ lb. 30c, postpaid.

ICICLE—The finest eating white radish; has long, slender, pure white roots, which remain fresh and crisp until they grow to a large size; tops are quite short, making it early, and allowing close planting. Icicle radishes are a good crop to follow the first globes. Pkt. 5c; oz. 10c; $\frac{1}{4}$ lb. 25c; lb. 70c, postpaid.

LONG WHITE VIENNA, or LADY FINGER—An excellent variety of the Summer Radishes; long, pure white and mild in flavor. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 25c; lb. 75c, postpaid.

WINTER VARIETIES

The merits of Winter Radishes are little appreciated, probably because they are seldom grown, and few people have knowledge of their worth. These grow to large size and keep well for autumn and winter use. Sow the seed from the middle of July until the middle of September. Include some of these with your order.

CALIFORNIA MAMMOTH WHITE—Roots white and when fully matured 9 to 12 inches long by 2 to 4 inches in diameter just below the shoulder, tapering regularly to the tip. Flesh firm, crisp, well flavored, and will keep well through the winter. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 90c, postpaid.

CHINA ROSE WINTER—Of bright deep rose color; flesh firm and excellent for keeping. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 90c, postpaid.

LONG BLACK SPANISH—With black skin and white flesh; will keep until spring. Pkt. 10c; oz. 15c; $\frac{1}{4}$ lb. 30c; lb. 90c, postpaid.



Scarlet Globe



White Tipped

Spinach is Good for Health—Plant Perfection Brand



Bloomsdale Spinach

A spring plant used for greens. Very hardy and most in demand in early spring and late fall. Leaves are large, rich and tender. Very easy culture and grows best in cool weather. Rapid growth is desirable that leaves may be strong and tender. Soil should be rich and given good cultivation. For fall use seed may be sown the middle of September. One ounce will sow 100 feet of drill.

BLOOMSDALE—This is the most popular variety. The fleshy leaves are of true Savoy appearance; very hardy. Pkt. 5c; oz. 10c; lb. 30c, postpaid. By freight or express, lb. 20c; 10 lbs. \$1.65.

NEW ZEALAND—Best for hot weather. Yields continuously from late spring to late fall. During the summer months when ordinary Spinach bolts and goes to seed, this variety is at its best. It thrives on almost any soil and withstands drouth wonderfully well. The plant is bushy in form. As the tops are cut off, side shoots develop and in a few days another crop may be cut. Seeds should be soaked in warm water for 24 hours to hasten germination. Plant in March or April, 3 to 4 seeds in hills 2 feet apart each way. Pkt. 5c; oz. 15c; ¼ lb. 30c; lb. 80c, postpaid.

SQUASH

Squashes require a warm, fertile soil of sandy nature for best growth. Summer squashes grow mostly in compact bush form; hills for these should be about 4 feet apart; for long trailing fall and winter varieties hills should be 8 to 12 feet apart each way. If ground is not very rich two or three shovelfuls of well-rotted manure should be worked into each hill. Put 8 to 10 seeds in each hill about 1 inch deep. When danger from bugs is over thin to three to four of the strongest plants.

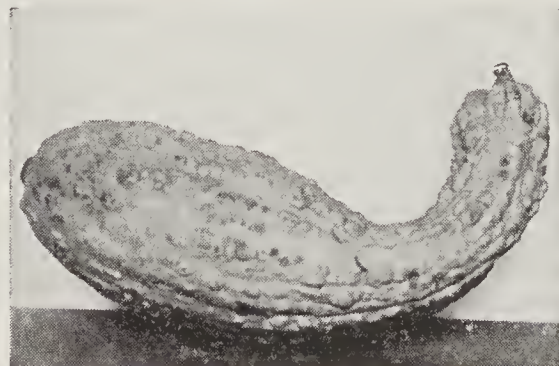
MAMMOTH WHITE BUSH—Not quite as early as the Early White Irish, but is very much larger. It makes a strong, bushy growth and bears fruit frequently 12 to 14 inches in diameter. The squashes are thick with scalloped edges. Pkt. 5c; oz. 15c; ¼ lb. 40c.

YELLOW SUMMER CROOKNECK—The plants are very productive and early bearing; skin of fruits very thickly warted and of orange-yellow color. Pkt. 10c; oz. 15c; ¼ lb. 40c.

HUBBARD—The most widely grown winter squash. Large and heavy, with bright orange flesh; fine grained, very dry, sweet and richly flavored; fine keeper; none better for squash pies. Pkt. 5c; oz. 15c; ¼ lb. 35c; lb. \$1.10, postpaid.

WHITE BUSH OR PATTY PAN—The best early variety. The plants are of true bush form and produce fruits very early in the season. Largely grown in the South for shipment to Northern markets. Pkt. 5c; oz. 15c; ¼ lb. 40c, postpaid.

GIANT SUMMER STRAIGHTNECK—A distinct improvement on the Crookneck strain, as it packs to better advantage for shipping. Popular with market gardeners and shippers. Plants are bush type. Fruits thick-necked, heavily warted, straight, orange yellow; flesh thick, light yellow. Pkt. 5c; oz. 15c; ¼ lb. 40c, postpaid.



Yellow Summer Crookneck

SALSIFY OR VEGETABLE OYSTER

So called because of resemblance in flavor to the oyster when cooked. Tap root is long and resembles a parsnip and one-half the size of an ordinary parsnip. Requires a deep, rich soil and the whole season to mature in. Plant seed about 1 inch deep in drills 12 inches apart, later thin out young plants to 4 or 5 inches. One ounce will plant 70 feet of drill. Roots may be dug and stored in fall or left in ground over winter.

MAMMOTH SANDWICH ISLAND—Grows very large; well flavored and mild. Pkt. 10c; oz. 20c, postpaid.

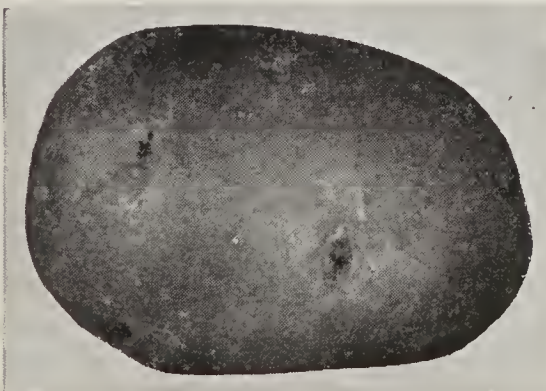
Perfection Brand Selected Irish Potatoes

Northern Grown

On account of market fluctuations, we are unable to name exact prices. We will be pleased to have you write during the month of January or later and we will then quote prices for prompt or future shipment.

Clean seed is of vital importance in the production of potatoes. Planting scabby or diseased potatoes in your garden will not only produce an inferior crop but will infect the soil with disease spores, and render it unfit for potato production in the future. Cut the seed potatoes in four or more sections, each piece with an eye. Dust with sulphur, and plant one section in a place and about ten inches apart in the row. Level the land, open a furrow about five inches deep, plant, cover, leaving the surface level. As the potatoes grow, draw the soil to them and thus provide an irrigation furrow between the rows.

Our Certified Seed Potatoes were grown in the Red River Valley of Minnesota and North Dakota and are strictly fancy stock. Should not be compared to average stock as offered by grocers and commission houses.



Irish Cobbler Potato

TRIUMPH—Very early. Tubers are of medium size, round and uniform in shape, with but few small ones; eyes slightly depressed; color a beautiful light red. Its beauty, productiveness and fine quality make it one of the best extra early market varieties, especially for the South.

EARLY OHIO—Our stock of this variety is grown in the Red River Valley of the North.

IRISH COBBLER—A variety which in recent years has attained popularity. In many soils is as early or within a few days as early as Early Ohio, and the yield is superior. Added to this last the potato is chunky, white in color and of large medium size, making it the most attractive variety by far on the early market.

SAGE—One of the most perennial herbs, used principally for flavoring and seasoning. Cut the leaves and tender shoots just before the plant is coming into flower, and dry quickly in the shade. The plants are hardy and will survive the winter. Pkt. 10c; oz. 25c, postpaid.

Perfection Brand Delicious Tomatoes

Everyone likes a good Tomato and every garden should have at least a dozen hills of Tomatoes. They may take a little more work than some other vegetables, but the occasional hoeing needed is well repaid by the constant supply of delicious fresh fruit all summer long. When the first frost comes in the fall, there are usually a number of green Tomatoes left on the vines. These make an excellent pickle which will be relished the whole winter. We pay special attention to raising Tomato plants for the home garden.

SPARKS' EARLIANA—Coming into the market before any other sort, it commands top prices. The fruits are solid, uniform in shape, and of a rich bright-red color. The Tomatoes are produced in clusters, and generally can all be gathered in about three weeks from the time the first fruits ripen. Pkt. 5c; oz. 35c; $\frac{1}{4}$ lb. \$1.25, postpaid.

NEW PRITCHARD, or SCARLET TOPPER—This is a new tomato originated by the late Dr. Pritchard of the U. S. Department of Agriculture. It is early, fruits large, smooth, meaty, very red, globular. Vines medium, dense, erect, self-topping and very prolific.

Especially bred up for a green-wrapped tomato, it is also an excellent canner and it ripens well up to the stem end. It has a tendency to set a rather large number of fruits, therefore requires either a naturally fertile soil or one well fertilized in order to size up the fruit properly and produce maximum quantity of fruit per vine. Packet 10c; $\frac{1}{4}$ oz. 20c; oz. 60c, postpaid.

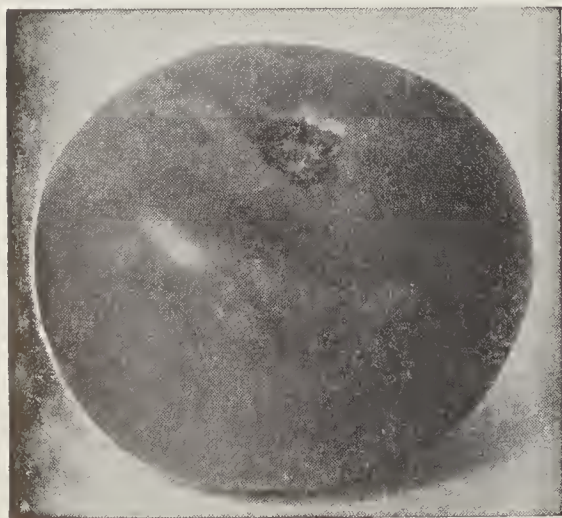
MARGLOBE—This new tomato is the result of the efforts of Dr. F. Pritchard of the United States Department of Agriculture who has succeeded in producing a perfectly globe-shaped tomato of the most beautiful red color. It bears an abundant crop of good sized fruit which ripens well up to the stem. It is a second early sort and has proven to be disease resistant in the section where tomato diseases are most prevalent. Pkt. 10c; oz. 35c; $\frac{1}{4}$ lb. \$1.00, postpaid.

LIVINGSTON'S GLOBE—The greatest shipping Tomato known. The finest early purple tomato in existence. Very distinct in shape, firm fleshed, of delicate flavor, almost blight-proof. Livingston's Globe is an extra good, all-round sort, of a distinct globe shape or elongated fruits. On account of its shape, it permits a great number of slices to be made from each fruit. We class it with the first early varieties. It is always smooth, of firm flesh and few seeds; ripens evenly; color, a fine glossy rose, tinged with purple. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25, postpaid.

GULFSTATE MARKET—Although this variety was developed primarily to meet the demands of tomato growers who ship to distant markets, its many excellent qualities make it also a very desirable sort for the home gardener or the grower for local markets. Fruits medium to large, round or globe shaped, show but little depression about stem and are smooth and free from cracks. Color, deep purplish pink, ripening well about the stem. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25, postpaid.

JOHN BAER—Perfection Strain—Earliest of the earliest. This seed is grown for us in the North by an experienced man that grows no other variety of tomato. This variety produces the most perfect High Crown Tomato ever grown. Entirely free from core, is an enormous yielder. Ripens right up to the stem and has no blight, no cracked, no wrinkled, no one-sided scarred fruits. When dead ripe John Baer will not burst. Has a mild, delicious sweet flavor, is almost seedless, and brilliant bright red color. Our Perfection strain of John Baer is the most perfect shipping tomato on the market. Pkt., 10c; $\frac{1}{2}$ oz., 30c; oz., 50c; $\frac{1}{4}$ lb., \$1.75, postpaid.

OXHEART—Popular because of its attractively different shape, large size and excellent table qualities. Not a heavy yielder but large size, often weighing 3 lbs. or more. Skin pink, almost seedless, firm sweet flesh frequently two inches thick, without a seed cavity. Slices well. Pkt., 15c; $\frac{1}{4}$ oz., 30c; oz., \$1.00, postpaid.



Dwarf Champion



Sparks' Earliana

GREATER BALTIMORE—Brilliant red. This grand, early variety produces large, bright red tomatoes in clusters in about 110 days. The vines are vigorous, compact and healthy growers; a heavy cropper of large, smooth, well formed tomatoes; deep from stem to blossom end. Very firm and meaty. Free from ridges, cracks and blight. Pkt., 10c; oz., 30c; $\frac{1}{4}$ lb., 95c, postpaid.

BREAK O'DAY—This variety is a cross between the Marglobe and Marvana, possessing the disease-resisting quality in both to a very marked degree. In size, color, shape and solidity the fruit is very much like Marglobe but matures from ten to twelve days earlier. It produces a very heavy plant and from a standpoint of yield is one of the most prolific varieties ever introduced. The fruit is globe-shaped and of a beautiful deep scarlet color, and is unusually meaty, producing very few seeds. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00, postpaid.

PONDEROSA—Largest fruited tomato in cultivation, single fruits often weighing from 2 to 4 pounds and measuring 18 inches in circumference. It is solid and meaty to the heart and has small seed cavities. For this reason selected seed of this variety will always be scarce. Fine for slicing and of excellent flavor. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$1.25.

NEW STONE—Immensely popular with canners, Southern shippers, and market gardeners. It is a remarkable yielder, very firm, and of a handsome, bright red color. It is of excellent shape with very smooth skin, never cracking, and free from green core. Pkt., 5c; oz., 15c; $\frac{1}{4}$ lb., 40c; lb., \$1.50, postpaid.

JUNE PINK—In habit and growth it is similar to Earliana. The plant is neat and compact, branching freely, with fruits ranging in clusters of 6 to 10. The fruits are of medium size and uniform, smooth and of attractive shape, without cracks or any green core. This is an excellent shipping Tomato as the skin is very tough. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.50; lb. \$4.50, postpaid.

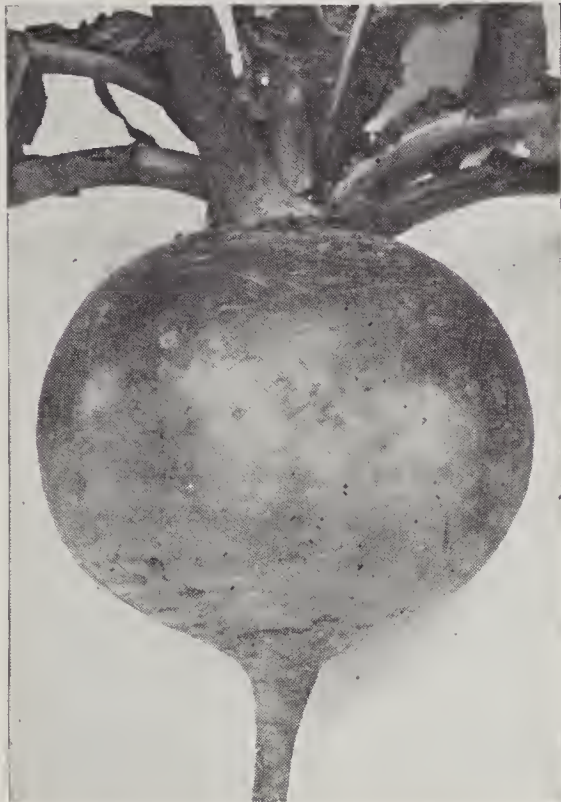
CHALK'S EARLY JEWEL—One of the best early Tomatoes yet introduced. The vines are vigorous and very productive. Fruits deep scarlet red, nearly round or somewhat flattened, smooth, of large size and most excellent quality. They ripen very early, and the pickings continue through a long season. Pkt. 10c; oz. 25c; $\frac{1}{4}$ lb. 75c; lb. \$2.25, postpaid.

DWARF CHAMPION—The most popular dwarf variety in cultivation. The stocky, sturdy plants are of upright growth, requiring no support. The purplish red fruit begins to ripen early and are produced throughout the season. Pkt. 10c; oz. 40c; $\frac{1}{4}$ lb. \$1.25, postpaid.

Perfection Brand Tomatoes (Continued)

BEEFSTEAK—The fruit grows very large and very smooth. It is oval in shape rather than round like Stone. It is very solid and keeps well on the vines after ripening; has rather few seeds and ripens all over and through at one time. The color is clear deep red. Pkt., 10c; ½ oz., 35c; oz., 60c.

BONNY BEST—Early, large and smooth, heavy cropper. 100 days. In shape it is slightly flattened but thicker through than most other tomatoes. In color it is a beautiful scarlet red, setting its fruit in clusters of five or more at close intervals. Pkt. 10c; oz. 30c; ¼ lb. 95c, postpaid.



Purple Top White Globe

OUR SELECTED EARLY RED TOP WHITE GLOBE—Grown for us on contract from selected, transplanted roots. A perfect globe-shaped, with bright red or purple top and snow-white bottom. Due to the care in growing the seed it does not taper like other types of the same variety. Used extensively by our market gardeners. Oz., 10c; ¼ lb., 20c; lb., 65c, postpaid.

SEVEN TOP—Does not produce a good root, but is extensively grown in the South for the leaves, which are used for greens; very hardy and will grow all winter. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

IMPROVED PURPLE TOP RUTABAGA—Requires a longer season in which to grow than turnips, but flesh is of superior quality and keeps better. Pkt. 5c; oz. 10c; ¼ lb., 25c; lb., 70c, postpaid.

YELLOW PEAR—Used whole for salads and preserving. Pkt., 10c; ½ oz., 30c; oz., 50c.

YELLOW PONDEROSA—A main crop, yellow-fruited variety. Fruit is large, rough and flattened in shape; set in clusters of 3 to 5. Vine makes a medium, rather open growth and shows good wilt resistance. Pkt., 10c; oz., 60c.

RED CHERRY—Used whole for salads and preserving. Pkt., 10c; ½ oz., 30c; oz., 50c.

GROUND CHERRY, or HUSK—Used whole for salads and preserving. Pkt., 10c; ½ oz., 30c; oz., 50c.

Perfection Brand Turnips

The turnip is not injured by frost and makes its growth in cool, moist weather. For spring sowing plant as early as the ground can be worked and for fall sowing plant from August to October 1st in this latitude. One ounce will sow 200 feet of drill. Turnips prefer a light sandy loam. Sow in rows 12 to 18 inches apart and half-inch deep. Thin out so the plants stand 4 inches apart.

EXTRA EARLY PURPLE TOP MILAN—Flat bulbs, develop very early in the season. They are moderate sized, quite smooth and of excellent table qualities. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

EARLY WHITE MILAN—The earliest of all. On account of its beautiful shape and extreme earliness this takes the front place among turnips. It is so smooth and neat in appearance that it gives the impression that it has been polished by hand. The foliage is scant and short. Both skin and flesh are snowy white. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c, postpaid.

WHITE EGG—Of handsome oval form with perfectly thin white skin. It grows very quickly and the flesh is very firm, sweet and mild. Pkt., 5c; oz., 10c; ¼ lb., 25c, postpaid.

COWHORN—A long white turnip, 12 to 15 inches in length, 2½ inches in diameter. Of rapid growth, producing large, heavy roots in 65 to 75 days. Very hardy. One of the best and sweetest for home use or for stock feeding. Pkt. 5c; oz. 10c; lb. 45c; 5 lbs. \$2.00, postpaid.

PURPLE TOP WHITE GLOBE—Form large globe-shaped roots very rapidly. The upper half is a purplish color while the lower half is a pure white; the flesh is pure white, crisp and of excellent table qualities. Pkt. 5c; oz. 10c; ¼ lb. 20c; lb. 60c, postpaid. By freight or express, lb. 50c; 5 lbs. \$2.00.

JAPANESE FOLIAGE TURNIP—"Shogoin"—The louse-resistant foliage strain. Is blightproof, will grow in hottest and driest weather, and very resistant to insects and blight. Shogoin roots or bulbs are in uniform size, snowy white and brightening color, very solid, mild and finest grain with juicy sweet flavor. The tops are very large, upright foliage, juicy and tender. Good cropper and louse-resistant. Does well in hot or cool weather. Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., 70c, postpaid.

EARLY RED or PURPLE TOP STRAP LEAF—The standard early variety; quick-growing; flesh fine-grained and sweet. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 60c, postpaid. By freight or express, lb., 45c; 5 lbs., \$2.00.

LARGE YELLOW, or AMBER GLOBE—Grows to a large size and is chiefly used for stock feeding; flesh yellow, firm and of good keeping qualities. Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 65c, postpaid.

VEGETABLE PLANTS AND ROOTS

ASPARAGUS ROOTS (Washington Rust Proof)—Two-year-old roots. Dozen, 35c, postpaid. By express, 100, \$1.50.

CABBAGE PLANTS—See Page 52.

EGGPLANT—(New York Improved Large Purple)—Ready in May. Dozen, 35c, postpaid. By express, 100, \$2.75.

HORSERADISH SETS—Dozen, 35c; 100, \$2.00, postpaid.

SWEET POTATO SLIPS—Write for prices.

PEPPER PLANTS—(Large Sweet Bell)—Ready in April. Dozen, 40c, postpaid.

RHUBARB ROOTS—Strong roots. Each, 30c; dozen, \$2.50. Small roots, each, 10c; dozen, 90c, not postpaid.

TOMATO PLANTS—Transplanted—Ready in April. Dozen, 35c, postpaid. By express, 100, \$1.75.

FROST-PROOF CABBAGE PLANTS—See Page 52.

TOBACCO

Culture—The seed should be sown as early as possible after all danger of frosts is over. A good plan is to burn a quantity of rubbish and brush in the spring on the ground where the crop is to be grown, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly. When the plants are about 6 inches high transplant into rows 4 or 5 feet apart each way; cultivate thoroughly with plow and hoe.

CONNECTICUT SEED LEAF—An old, well-known variety. Pkt. 10c; oz. 50c.

HAVANA—Grown from imported seed from Vuelta de Abajo. Pkt. 10c; oz. 50c.

WHITE BURLEY—Well-known sort. Our seed is grown on the famous limestone fields of Tennessee. Pkt. 10c; oz. 50c.



Cabbage Plants

You, Too, Can Have a Beautiful Flower Garden

No longer is it necessary to envy your neighbor of her beautiful flowers. Perfection Brand Seeds are of such a high germinating quality and are so reasonably priced that with a few dollars you can have a show place. A word about planting flower seeds—sow the seeds either broadcast or in rows and cover lightly—a good general rule is to cover four to five times the size of the seeds—and press soil firmly. Small seeds cannot come up if covered too deep. Very fine seeds should be sown on the surface and pressed into the soil.



Cosmos—Orange Flare



Canterbury Bells

CANTERBURY BELLS—New Annual Type; few flowers are more popular in the spring garden than Canterbury Bells, and we have always wished we might have them over a long season. This is now possible, with this new variety. Annual Canterbury Bells make a plant that is loaded with flowers less than five months after seed is sown. Mixed colors—Pkt., 20c.

CHRYSANTHEMUMS—These showy and effective garden varieties are extensively grown for cut flowers. They grow 16 to 18 inches high and blossom in the fall. Annual.

Mixed—Pkt., 10c; ¼ oz., 20c.

COLUMBINE (Aquilegia)—One of the most popular perennials, easy of cultivation and flowering from early summer until frost. Very desirable for borders and groups among shrubbery, 1 to 3 feet high.

Mixed—Pkt., 10c; ¼ oz., 25c.

CENTAUREAS MOSCHATA (Sweet Sultan)—Mixed colors. Very desirable for cutting and garden decoration. They bloom freely for many weeks during the summer. The large, long, stemmed, sweet scented flowers are exquisitely fringed and most graceful in appearance. Pkt., 10c; ¼ oz., 25c, postpaid.

POPULAR DOUBLE CORNFLOWERS (Centaurea Cyanus)—An old favorite, noted for its vigorous growth, large size flowers, and extreme doubleness of its blooms. The plants grow 2 to 3 feet tall. Fine for cut flowers.

Emperor Blue—pkt., 10c; ¼ oz., 25c.

Double Mixed—pkt., 10c; ¼ oz., 20c.

CYNOGLOSSUM (Chinese Forget-me-not)—Annual. Large sprays of rich blue forget-me-not-like flowers from June till September. Thrives in a dry, sunny location. Height, 20 inches. Pkt., 10c; oz., 35c.

AGERATUM (Conyzoides)—A very beautiful Mexican flower of a delicate bush-like appearance; very attractive in the garden. They will bloom all summer and if sown in the fall will give winter bloom under glass. Set a foot apart. Annual, 1½ feet high. Pkt., 10c; ¼ oz., 25c.

ALYSSUM (Maritimum) Little Gem—A low spreading light green plant with small white flowers of a peculiar delicate fragrance. Most effective in masses of plants, 1 foot apart. Hardy annual, 1 foot high. Pkt., 5c; ¼ oz., 20c.

ASTER (Composite)—The Aster is considered the queen of all flowers. For beauty and variety of form and color, it is unrivaled, and of all the flowers is best adapted to win the admiration of all lovers of floral beauty. Set a foot apart. Height, 1½ feet. Annual.

Wilt Resistant Type American Beauty—Mixed colors, Pkt., 20c.

BABY'S BREATH (Gypsophila)—Annual, 10 to 15 inches. Blooms in May and June. Small flowers on branched stems so thick as to give the plants a white lacelike effect. Pkt., 10c; ¼ oz., 25c.

BALSAM (Lady's Slipper, Touch-me-not)—An old favorite garden flower producing its gorgeous masses of beautiful brilliant colored double flowers in the greatest profusion. Half-hardy annual. 2 feet high.

Mixed Double—Pkt., 10c; ¼ oz., 20c.

BRACHYCOME SWAN RIVER DAISY—Small blue, rose and white Daisy-like blooms nearly all summer. Fine for edging or rock gardens. Pkt., 10c.

COSMOS EARLY KLONDYKE—Orange Flare. Grand Champion Gold Medal Winner, 1935, All American Selections. Bright vivid orange, very free flowering 2-3 feet tall, with sparse growth of light green foliage. The most outstanding characteristic is its early blooming habit. The blooming season is long, and the long wiry stems make Orange Flare an excellent flower for cutting. Pkt., 20c.

COSMOS—The foliage is light and finely cut, rivaling the fern for decorative purposes. The plants continue to bloom until severe frost, producing their daisy-like flowers with great prodigality. Sow in rich soil when all danger from frost is past, and thin out the seedlings to two feet apart.

Giant Mixed—Pkt., 10c; ½ oz., 15c.

Giant Flowered Pink—Pkt., 10c; ¼ oz., 20c.

Giant Flowered Crimson—Pkt., 10c; ¼ oz., 20c.

CALENDULA (Orange Shaggy)—One of the most interesting and certainly the most distinct of the new types is the lacinated petaled type, Orange Shaggy. Deep orange in color, it is a striking contrast to the formal Calendulas in general use. Pkt., 15c.

CALENDULA (Pot Marigold)—Pkt., 10c; oz., 50c. Mixed colors—pkt., 10c; oz., 40c.

CANDYTUFT (Iberis Umbellata)—One of the most hardy annuals, useful for cutting and is most effective when grown in a mass. Sow early ¼ inch deep in fine, rich soil and transplant or thin out to 9 inches apart. Height, 1 foot.

PERFECTION Brand Mixed—Pkt., 5c; ¼ oz., 15c.

CARNATION—Marguerite—These are comparatively a new class of carnations. They are highly prized for massing in summer beds and their perfect form, beautiful shades of color and lavish profusion of bloom continue till frost. Semi-dwarf, 10 to 15 inches high. Annual. Pkt., 10; ¼ oz., 25c.



Celosia Cristata (Feathered Cockscomb)

CELOSIA CRISTATA—Showy flower-heads or combs of plush-like finish. They are very ornamental and are easily dried for winter decorations.

TALL CRIMSON—Pkt., 10c; ¼ oz., 25c.

DWARF EMPRESS—Dark foliage, dark red flowers. Pkt., 10c; ¼ oz., 40c.

FLOWER SEEDS—(Continued)

DAHLIA—The dahlia is one of the most popular occupants of our gardens. Easily raised from seed, which will produce to flower the first season. Half-hardy perennial, 3 to 5 feet.

Double Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 50c.

DIMORPHOTHECA African Daisies—Cape Marigold showy annuals from South Africa, about 1-ft. tall, with fine Daisy-like blooms during summer and fall. Good for rock gardens and edging.

AURANTIACA—White Beauty. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

EVERLASTINGS or STRAWFLOWERS—Large, full, double, daisy-like flower heads with prominent centers and stiff overlapping scales. Produces in various shades of bright yellow and scarlet on stems of good length. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in the spring; thin to one foot apart each way. Hardy annual. Two to two and one-half feet high. Mixed Packet, 10c; $\frac{1}{4}$ oz., 25c.

FOUR O'CLOCKS or MARVEL OF PERU (Mirabilis)—This handsome, well-known free flowering garden favorite does well in any soil and under almost all conditions. Produces large flowers of many brilliant colors. The flowers are at the height of perfection during the afternoon. Height, 2 feet. Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

FOXGLOVE (Digitalis)—A very beautiful and interesting old-fashioned plant whose culture is very simple. The bell-shaped flowers borne on long spikes make an exceedingly handsome and stately border. Keep plants 2 feet apart. Height, 3 to 5 feet. Hardy biennial.

Perfection Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 75c.



Hollyhock

GAILLARDIA (Blanket Flower)—Annual. Blooms July to October. The annual varieties are very showy and are well adapted for garden decoration and cutting. Grandiflora. Double Mixed. Two ft.; large flowering. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

GERANIUM (Pelargonium)—These universally admired plants are easily grown from seed and bloom the first season. Half-hardy perennial. 1 to 2 feet.

Perfection Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 75c.

GILIA—Thimble flower (Capitata). Soft lavender-blue, about 1 inch across, cover the fine feathery foliaged plants from July until frost. 2 feet. Fine for cutting. Does well in ordinary soils. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

HOLLYHOCK (Althca Rosea)—The hollyhock is an old garden favorite. The tall, stately spikes bear immense quantities of blooms of the most brilliant colors and as double as a rose. Plant 3 feet apart and water freely. Height, 5 to 6 ft. Hardy perennial.

Perfection Brand Double Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 25c.

KOCHIA (Summer Cypress)—Sometimes called burning bush. This annual plant is of surprising rapid growth, regular pyramids about 2 feet high. Leaves slender, of light pea green until fall, changing to blood red and carmine. Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 30c.

LINARIA Toad Flax—The Linarias, commonly known as miniature snapdragons, are very charming, free flowering border plants in bright and pastel shades. 18 inch.

Perfection Brand—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

LUPINS—Long graceful spikes of pea shaped flowers from July until August. Plant in lime free, moist soils. Finest mixed. Pkt., 10c.

Texanus, true Texas Blue Bonnet. Pkt., 10c.

MARIGOLD, GUINÉA GOLD (2 ft.)—Carnation-like petals and unusually brilliant golden color makes this flower outstanding among Marigolds. It lacks much of the pungent odor of other Marigolds. The plants bloom very freely, and practically all flowers are double. Pkt., 10c; $\frac{1}{4}$ -oz., 35c.

MARIGOLD—

African Tall Double Golden Beauty. African Tall Double Finest Mixed

African Tall Double Yellow Beauty. Dwarf Double Finest Mixed.

PRICE—Pkt., 10c.

MARIGOLD, MEXICAN DWARF ORANGE (New)—Orange, large flowers semi-tubular petals, semi-dwarf, very attractive. Pkt., 10c.

MARIGOLD, YELLOW SUPREME (New)—Of creamy yellow, carnation flowered 2-2 $\frac{1}{2}$ feet. Pkt., 10c.

MARIGOLD (Dixie Sunshine)—The flowers are 2 to 2 $\frac{1}{2}$ inches across, fully double and ball shaped, ingeniously composed of dozens of tiny five-petaled florets. Brilliant golden yellow color. Free flowering fine new cut flower variety. Late blooming. Pkt., 10c.

MARIGOLD (Gigantea Sunset Giants)—The largest flowered of the Marigold group. Averaging 5 inches and some attaining a size of 7 $\frac{1}{2}$ inches across, but they are produced in such profusion that a plant of Sunset Giants is one of the showiest places in the garden. Instead of the usual marigold odor these have a definitely sweet fragrance. This strain comes from 60 to 65% double. Pkt., 25c.

MIGNONETTE—The mignonette is a universal favorite and no other flower is so generally known for fragrance. The dense semi-globular heads of flowers on stalks about 6 inches high, making the whole plant reach to 1 to 1 $\frac{1}{2}$ feet high. Hardy annual. Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 15c.



Geranium—From Seed

HUNNEMANNIA (Semi-Double Sunlite)—Yellow Sunlite, the attractive semi-double form of the well known Mexican Tulip Poppy, has become since its introduction two seasons ago one of the most popular garden flowers. The Tulip shaped flowers with their extra band of petals on the outside rather than the inside of the cup give the appearance of being open at all times. Plants grow about two feet in height and like a sunny position in any well drained soil. Pkt., 20c.

LANTANA—Popular and rapid growing plants with large heads of variously colored and perfumed flowers. The bushy plants are completely loaded with blossoms, which are succeeded by green berries which turn to deep blue when ripe. Half-hardy perennial, 2 feet high.

Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

LARKSPUR (Giant Imperial)—Tall, upright, compact, basal branching in habit, the Giant Imperials have superseded all other types of Larkspurs. The delphinium like spikes of double flowers, carried on stems 4 to 5 inches long, are compactly placed on upright growing plants, requiring about one-half the space needed for the old stock flowered type.

Blue Bell—Azure Blue.

Blue Spire—Very deep violet blue.

Carmine King—Deep carmine rose.

Miss California—Deep Rose on Salmon.

Finest Mixed.

Pkt., 10c; $\frac{1}{4}$ oz., 30c, postpaid.

Larkspur Tall Double Stock Flowered Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 25c, postpaid.



Marigold—Guinea Gold



Petunia—Rose of Heaven

FLOWER SEED (Contd.)

NASTURTIUMS—GOLDEN GLEAM—A recent introduction. The large, golden yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. When well grown the remarkable formation gives the flowers a fully double appearance. Very sweet scented. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

ORANGE GLEAM—An improvement over Golden Gleam in doubleness and also for number of flowers in bloom on one plant. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

SCARLET GLEAM—Fully double, of the same type as Golden Gleam. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

GLORIOUS GLEAM HYBRIDS MIXED—Wide assortment of colors, sweet scented. Pkt., 10c; $\frac{1}{4}$ oz., 20c.

PERFECTION Brand Tall Mixed—Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c.

PERFECTION Brand Dwarf Mixed—Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c.

PETUNIA—Petunias are unsurpassed if indeed equalled for massing in beds. Their richness of color, duration of bloom, and easy culture will always make them welcome and popular. $1\frac{1}{4}$ feet high. Hardy annual. Transplant 18 inches apart.

PERFECTION Brand Single Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 25c; oz., 80c.

Striped and Blotched—Pkt. 10c; $\frac{1}{4}$ oz. 35c.

General Dodd's—Velvety crimson. Pkt. 10c; $\frac{1}{4}$ oz. 35c.

VIOLACEA—Deep rich violet blue. Pkt., 10c.

GIANT FRINGED Dainty Lady—Delicate golden yellow, compact. Pkt., 30c.

NANA ERECTA Dwarf Compact Rose of Heaven—Brilliant rose with light throat. Very bright and showy. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

Finest Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 25c.

PETUNIA Flaming Velvet—Flowers are large, of a heavy velvet substance, and are borne in riotous profusion. The color is outstanding, a rich brilliant blood red. Pkt., 25c.

PANSIES—The pansy is a flower that is well known and highly prized in every garden.

Giant Trimardeau Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 40c; oz. \$1.25.

PHLOX ANNUAL

The Phloxes are the showiest and most easily raised of all annuals. All the tints of the rainbow are represented with all possible variations of stripes, veins and eyes of contrasting shades.

Seed should be sown in the ground as soon as danger of frost is over and in a few weeks the beds are a blaze of glory. If seed pods are cut off the plants will continue to flower until frost.

Chamois Pink—Pkt. 25c.

Grandiflora Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 25c.

Star Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 25c.

DIANTHUS (Heddewigi)—(Japanese Pinks)—Annual. Plants dwarf compact, 10 to 12 inches, free flowering. Perfection Brand Double Mixed pkt., 10c.

DIANTHUS (Heddewigi Laciniatus)—Annual. Plants dwarf compact, free flowering lacinated petals. Perfection Brand Double Mixed, pkt., 10c.

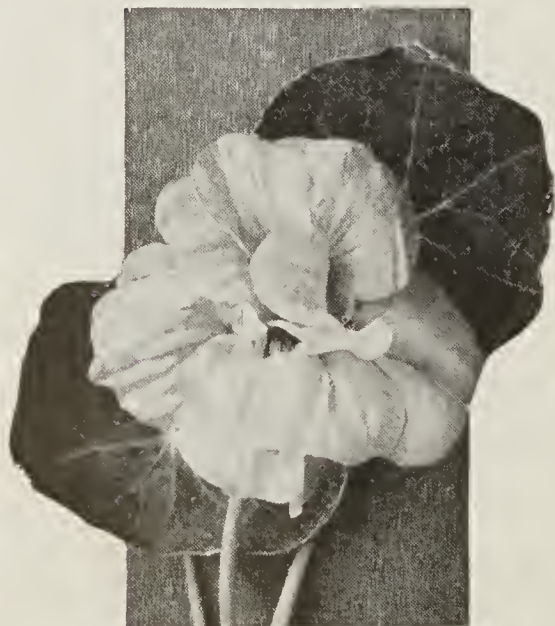
DIANTHUS (Laciniatus Splendens)—The most striking Dianthus ever offered. Laciniatus Splendens comprises extra large single flowers of brilliant crimson, boldly contrasted with a glistening white eye, borne profusely on neat dwarf compact plants. Per pkt., 20c.

Annual Poppies

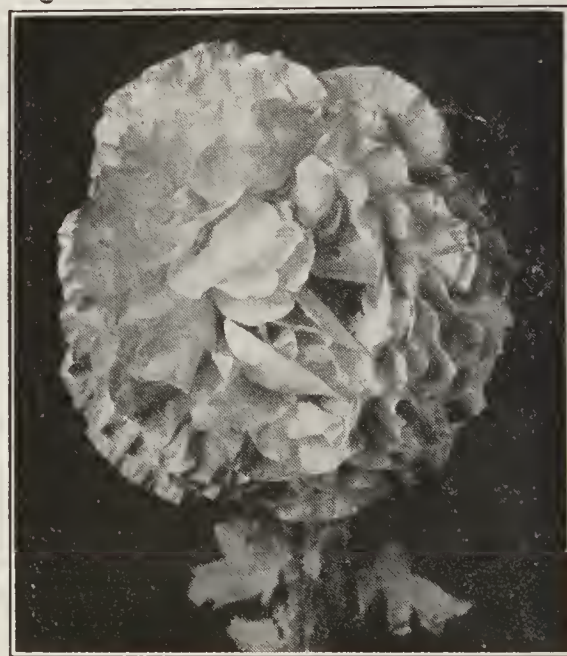
Annual poppies should be sown in the spring soon as possible where they are to remain, as they do not stand transplanting. Poppies are charming subjects in the garden because of their brilliantly colored flowers and the freedom in which they are produced.

CALIFORNIA POPPY—Spreading varieties.

AURANTICA—Orange. **CARMINE KING**—Deep carmine. **BRILLIANT MIXED**—Pkt., 10c; $\frac{1}{4}$ oz., 25c.



Nasturtium—Double Scarlet Gleam



Poppy—Double Carnation Flowered

DOUBLE CARNATION FLOWERED—Fringed huge ball shaped blooms with attractive fringed petals in a wonderful range of colors. Cherry Red; Mikado, White edged scarlet; Salmon Pink; Vermilion Red.

FINEST MIXED—All per pkt., 10c; $\frac{1}{4}$ oz., 15c.

SINGLE SHIRLEY POPPY—Large, single flowers with papery, silk-like petals. Very attractive.

AMERICAN LEGION—Brilliant scarlet, white maltese cross.

FINEST MIXED—All per pkt., 5c; $\frac{1}{4}$ oz., 20c.

FLANDERS POPPY—A true dwarf orange scarlet, black cross. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

PORTULACA—There is scarcely any flower in cultivation that makes such a dazzling display as a bed of many-hued, highly colored Portulaca. In bloom all summer until frost. Beds should have full exposure to sun and plants will stand any amount of dry weather.

Double Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 50c.

Single Mixed—Pkt. 10c; $\frac{1}{4}$ oz. 20c; oz. 65c.

RICINUS (Castor Bean)—This magnificent foliage plant is picturesquely showy and imposing, lending to the garden a truly sub-tropical effect. When grown single, it forms a perfect pyramid of gigantic leaves, which with the brightly colored seed pods make a perfect oriental picture. Plant 2 inches deep when all danger of frost is over. Set out or transplant 3 feet apart.

Perfection Brand Giant—Pkt., 10c; oz., 20c.

SALVIA (Scarlet Sage)—One of the handsomest flowering plants we have for garden decoration, blooming in spikes from mid-summer until killed by frost. Splendens—Pkt. 10c; 12 pkts. \$1.00.

FLOWER SEED (Contd.)

SCABIOSA (Mourning Bride)—Well-known garden favorite, flowering freely from mid-summer until frost. The handsome double flowers are borne on long stems, thus adding to their value as cut flowers, while the colors range from pure white through shades of pink and red to blue and black-maroon. Sow $\frac{1}{4}$ inch deep in rich soil, as soon as the ground is in good condition, when all danger from frost is past. Thin out the seedlings 6 to 8 inches apart.

DOUBLE PERFECTION MIXED—Pkt., 5c; $\frac{1}{4}$ oz., 10c; oz., 35c.

DWARF DOUBLE MIXED—12 inches tall. Pkt. 10c; $\frac{1}{4}$ oz. 20c.

SNAPDRAGON (Antirrhinum Majus)—The snapdragon is an old favorite border plant with dark, glossy leaves and large curious-shaped flowers, having finely marked throats, and are borne on tall spikes. Half-hardy perennial, 2 feet high. Perfection Brand Mixed Tall—Pkt. 10c; $\frac{1}{4}$ oz. 20c.

BRILLIANT ROSE—Rose Pink.

CARDINAL—Dazzling scarlet.

GOLDEN KING—Giant golden yellow. Pkt., 10c; $\frac{1}{4}$ oz., 40c.

RUST PROOF (Calif. Univ. De Luxe Mixture)—Pkt., 10c; $\frac{1}{4}$ oz., 40c.

STOCKS (Gilliflower)—A magnificent group of plants extensively cultivated for both summer and winter decoration. The extreme beauty of their flowers and luxuriant foliage, combined with their neat, graceful habit, make them one of the most popular and useful for pot culture and bedding purposes.

PERFECTION BRAND—Large flowering mixed. Pkt., 10c; $\frac{1}{4}$ oz., 30c.



Sweet William

SWEET WILLIAM

(*Dianthus Barbatus*)—A well-known attractive, free-flowering plant, producing a splendid effect in beds and borders, with rich, attractive flowers borne in heads or clusters about 18 inches high. Hardy perennial. Double Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 25c.

TITHONIA (Speciosa Mexican Sunflower)—Stately plants with deeply cut, dark green foliage, and gorgeous, brilliant orange scarlet flowers 3 to 4 inches across. Charming for cutting and tall backgrounds. Blooms in late fall. Grows 6 feet. Pkt., 10c.

TORENIA—Small richly colored snapdragon-like flowers borne profusely during summer and fall on compact bushy plants 1 ft. tall. Fine for beds or borders.

FOURNIERI—Light blue, blotched deeper blue; yellow throat. Pkt., 20c.

VERBENA (Beauty of Oxford)—From rose pink to rose red. Pkt., 10c.

VERBENA DEFIANCE—Scarlet. Pkt., 10c; $\frac{1}{4}$ oz., 30c.

VINCA (Madagascar Periwinkle)—Handsome ornamental free-blooming very bushy plants, producing round, single flowers measuring $1\frac{1}{2}$ inches across. Fine bedding plants and cut flowers.

PERFECTION Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., 90c.

VERBENA HYBRIDA—Blooming freely all season until frost and in the most brilliant colors. Admirable for solid beds or masses; also for edging. Sow $\frac{1}{8}$ inch deep in boxes or pots of fine soil, transplant to other boxes 3 inches apart, and plant out in a warm, sunny position in the border when all danger from frost is past.

PERFECTION Brand Mixed—Pkt., 10c; $\frac{1}{4}$ oz., 30c; oz., \$1.00.

Perfection Brand Dainty Sweet Peas (Inoculate With Nitragin Before Planting)



Sweet Peas are more than flowers—they are a necessity for every garden. They lend themselves readily and easily to beautifying schemes of the city and country farmer.

LOCATION—Any location will be suitable that is well drained and that will get free circulation of air. Early planting is essential with sweet peas in order to give the roots a chance to develop more rapidly than the tops during the cool weather. Early plantings produce blossoms before the intense heat of the summer comes which is likely to wilt the plants if they do not have well developed roots. Sowings should be made in furrows 12 inches deep and the seed covered with an inch of soil and the trench filled in as the plants grow. It is a help to soak the seeds in lukewarm water overnight before sowing. Use one ounce to twelve feet of row.

SPENCER SWEET PEAS—Because of such unusual size, waved or fluted appearance and charming blendings of harmonious colors, the new Spencer type may be appropriately described as Gigantic Orchid Flowered. The flowers are not only of extremely large size, but are distinct in having the outer edges of the standard and wings beautifully crumpled or waved.

AUSTIN FREDERICK — Large pure lavender.

BEAUTY—Blush pink.

CAPTAIN BLOOD — Brilliant blood scarlet, veneered copper.

COLORADO—Bright orange.

FLAMINGO—Orange, scarlet, cerise.

HEBE—Giant rosy pink.

INTERNATIONAL—Rich mauve.

KING WHITE—Giant White.

MARY PICKFORD—Cream suffused with salmon.

PRINCE OF ORANGE — Best deep orange.

REFLECTION — Large, waved, clear blue.

ROYAL PURPLE—Rich purple.

ROYAL SCOT—Brilliant scarlet.

SCINTILLANT — Light rose cerise.

SPLENDOR—Giant deep maroon.

SYBIL HENSHAW—Deep crimson.

THE ADMIRAL—Violet blue.



Spencer Mixed

All of the above, 10c per packet; oz., 15c; $\frac{1}{4}$ lb., 50c; lb., \$1.50.

Spencer Mixed Sweet Peas—Pkt., 5c; oz., 10c; $\frac{1}{4}$ lb., 40c; lb., \$1.25.

To have a Profusion of Showy, Colorful Flowers during the Summer—Plant Perfection Brand Colorful Zinnias

Our Zinnia Seed are grown by Bodger in California. Bodger is the originator of the Dahlia flowered and other types of Zinnias. No other annual can take the place of Zinnias, with their brilliant flowers of massive size. They have become a general favorite. Zinnias withstand lots of heat, thriving best in a sunny location. For bedding, for borders and for cut flowers, they furnish a wealth of blooms from early summer till late in the fall.



Zinnia—Crown of Gold

ZINNIAS, California Giants—Mixed colors. Pkt., 10c; ¼ oz., 25c; oz., 80c.

DAHLIA FLOWERED ZINNIAS—MIXED—In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. **Mixed colors,** packet, 10c; ¼ oz., 25c; oz., 80c.

DAHLIA FLOWERED ZINNIAS in separate colors—Deep Rose, Creamy Yellow, White, Purple, Rich Orange, Scarlet. Dahlia-flowered zinnias are too gorgeous to overlook and they will succeed where real dahlias will not. Pkt., 10c; ¼ oz., 35c; oz., \$1.00.

ZINNIA EARLY WONDER—MIXED—The plants are from 12 to 15 inches high with a profusion of medium-sized flowers and very little foliage. They are very early flowering and require but little space. Colors include many new colors of Orange, Reds, Lavender and Pinks. Pkt., 15c.

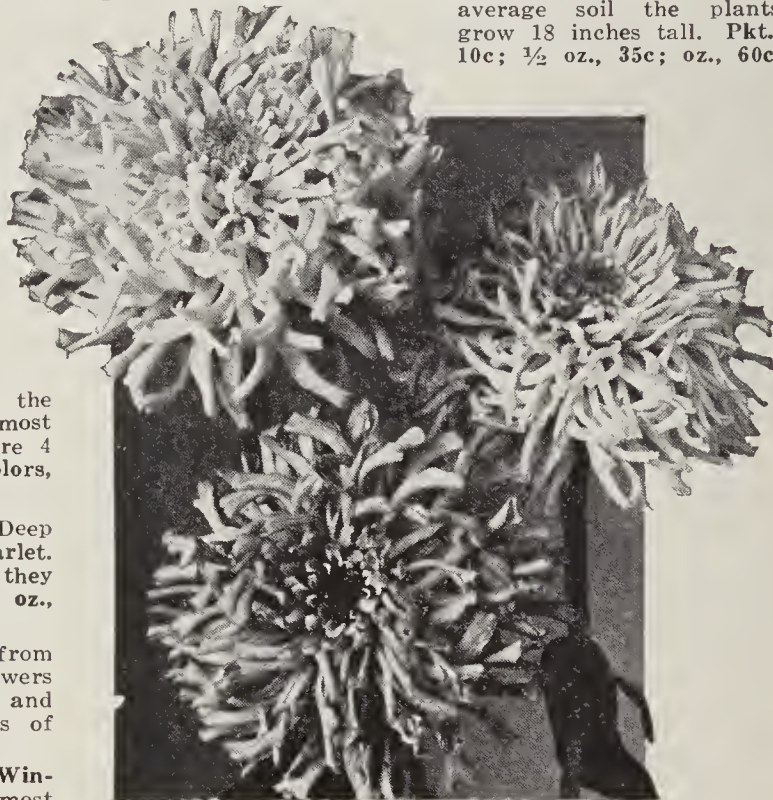
ZINNIA FANTASY—FINEST MIXED—Award of Merit Winner of 1935 All-American Selections. Fantasy is the most fascinating new Zinnia type introduced to the flower world in many years. The informal, shaggy appearing flowers are grace-



Zinnia—Early Wonder

ZINNIA, CROWN OF GOLD—DESERT GOLD—Desert Gold is a variety of dual tone beauty comprising the light and deeper hues of gold, each petal overlaid at the base with deeper golden yellow. The plants are from two and a half to three feet in height, bearing a generous quantity of large, well formed flowers which are equally effective in daylight or under artificial lights. Those who appreciate the finest in Zinnias will welcome Desert Gold. Pkt. 20c, postpaid.

CUT-AND-COME-AGAIN ZINNIAS (Elegans Pumila Dwarf Double)—A semi-tall type of Zinnia; has become very popular. Produces an abundance of medium-sized, well rounded blooms on stems long enough for cutting. The compact bushes keep on blooming from midsummer until frost, making an attractive display in beds or borders and yielding an abundance of long-keeping cut-flowers for house decorations. In an average soil the plants grow 18 inches tall. Pkt., 10c; ½ oz., 35c; oz., 60c.



Zinnia—Fantasy

ful and interesting, quite distinct from the stiff formal Zinnias to which we are accustomed. The rounded medium-sized flowers are composed of a mass of shaggy ray-like petals which give a delicate, refined appearance. The color range includes the brightest shades of Reds, Yellow and Orange as well as the popular Pastels, Pinks and Cream. Pkt., 20c, postpaid.

ZINNIA—Mexican Hybrids, Double Mixed—The small flowered Mexican Zinnias have a charm all their own. The smaller flowers lend themselves to bedding and make a brilliant display and yet have stems long enough to make fine bouquets for small vases and bowls. The mixture contains many attractive colors and color combinations. Pkt., 20c.

PUMILA PICOTEE—Delight Golden Bay—This new Golden Orange Zinnia is one of the medium-sized varieties demanded by the trend of the times. The tip of each petal of the golden orange flowers is outlined with a delicate edging of brick red, a touch which brings out the full beauty of the flower. Plants are about 2 feet high, and free flowering. Pkt., 20c.

SCABIOUS FLOWERED MIXTURE—Among the oddest and most attractive Zinnia forms developed. The Scabiosa Flowered type deserves to be more widely grown and better known than at present. The flowers, somewhat less than medium-sized, bear a remarkable resemblance to the annual Scabiosa. The plants are extremely free flowering, 2½ to 3 feet high, giving a wealth of bloom throughout the summer. Pkt., 20c.

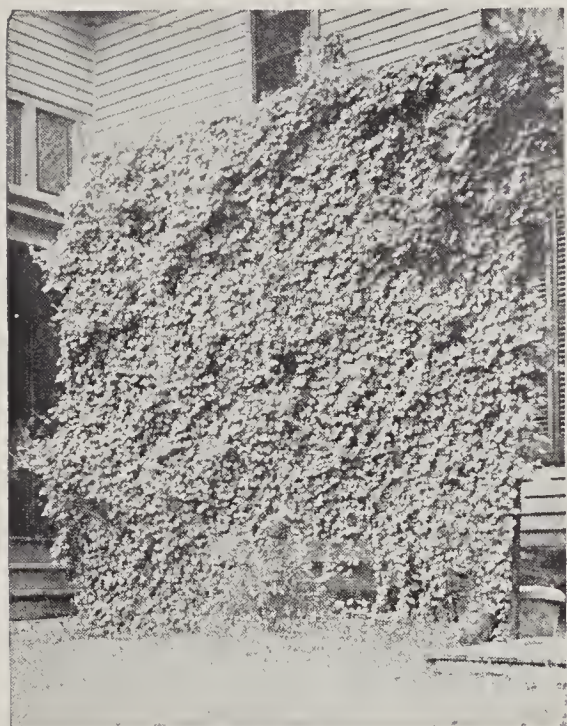
ZINNIA—Tom Thumb Mixture—Tom Thumb is without exception the dwarfest Zinnia known. The plants are rounded and compact, 4 to 6 inches high, literally covered with well formed flowers of the Lilliput type. The color ranges include Red, Orange, Yellow, Pink, Rose and other pastel shades. During the hot dry summer months this is the ideal border plant, and is also adapted for window box and pot work. Pkt., 20c.

ZINNIAS—Gracillima—Red Riding Hood. Deep scarlet, miniature red flowers, 2 to 3 inches, free flowering. Pkt., 10c; ¼ oz., 20c.

ZINNIAS—Sanvitalia Creeping—Masses of small, Zinnia like, double blooms of deep golden yellow on spreading plants 6 inches tall. Bloom all summer and fall. Fine for edging and rockeries. Pkt., 10c; ¼ oz., 30c.

Perfection Brand Flowering Vines, Climbing, Etc.

Rapid Climbers are excellent to shade porches, cover stumps and hide unsightly places. Everyone who has a porch or room that is exposed to the hot sun all summer long will appreciate what it would mean to have a dense green vine for protection.



Balsam Apple

MOONFLOWER (Evening-Glory Ipomoea)—Moonflowers are the most gorgeous and versatile of the climbing plants. It does well trained along the roof of a low house or veranda, and its blossoms are delightfully fragrant. If the seeds are notched they will bloom six weeks from sowing. Annual. Giant Pink or White—Pkt., 10c; $\frac{1}{4}$ oz., 15c; oz., 45c.

MORNING GLORY (Convolvulus Major)—One of the most free-flowering and rapid-growing annual climbers thriving in almost any situation. Height 10 to 15 feet. Japanese Imperial—Pkt., 10c; oz., 20c.

MORNING GLORY—Fancy fringed. Pkt., 10c; oz., 40c.

ORNAMENTAL GOURDS—Interesting and attractive when grown on trellis, pergola, or fences, etc. Of very rapid growth with luxuriant foliage and bearing most curious-shaped fruits. Do not sow until the ground is warm. Mixed—Pkt., 10c; oz., 25c.

SCARLET RUNNER BEAN (Phaseolus Multiflorus)—A tall twining plant, covered with crimson blossoms. As an ornamental vine over trellis, arbors, etc., very popular. Annual, growing 12 to 15 feet high. Pkt. 5c; oz., 10c.

BALSAM APPLE (Momordica Balsamina)—Very curious, rapid and dense climbers with ornamental foliage. Its large golden yellow fruit opens when ripe and displays its brilliant blood-red inside. Hardy annual. 10 to 20 feet. Pkt., 10c; oz., 30c.

CARDINAL CLIMBER—A very attractive and graceful climber, developing to perfection in sandy soil. The leaves resemble those of a fine Japanese Maple, and the rich scarlet blooms cover the vines completely all during summer and fall. Plant in full sun. Pkt., 10c; $\frac{1}{4}$ oz., 25c.

CYPRESS VINE (Ipomoea Quamoelit)—A most beautiful climber with delicate dark green, feathery foliage and an abundance of bright flowers. Planted by the side of a veranda, tree or stakes, it attains a height of from 10 to 20 feet. Annual.

Mixed—Pkt., 5c; $\frac{1}{4}$ oz., 10c. Red—Pkt., 10c; $\frac{1}{4}$ oz., 20c.

HARDY SWEET PEAS (Lathyrus Latifolius)—Very decorative climbing vines of the Pea family. Flowers are similar to Sweet Peas and are even more showy, but are lacking in fragrance. Mixed colors—Pkt. 10c; $\frac{1}{2}$ oz., 40c; oz., 70c.

HYACINTH BEAN (Dolichos Lablab)—(Commonly known as Jack Bean)—A splendid climber with hyacinth-like clusters of flowers which are followed by exceedingly ornamental seed pods. Is of rapid growth and stands heat well but not the cold. Half hardy annual, 10 to 20 feet high. Pkt., 10c; oz., 25c.

MADERIA VINE BULBS—One of the best and most popular Climbers for foliage effect. Increases very rapidly. Each. 10c; dozen, 90c, postpaid.

Ornamental Gourds will add much to a garden trellis in the way of novelty, and when frosts nip them in the fall, the large and various shaped fruits will make interesting decorations for the house if you dry them out and lacquer them.



Morning Glory

Dirt-Proof, Washable GARDEN GLOVES



ALL LEATHER and
DURABLE yet
SOFT AS KID and
EASY TO WEAR

—for Men and Women

EEzy Wear gives you everything you've been wanting in a garden glove:

All-leather protection from dirt, scratches, stains, infection—yet permit almost BAREHAND FREEDOM. Their amazing softness and pliability is the result of a special processing of select lamb skins. Economical, too—outwear 6 pairs of ordinary fabric gloves, are washable and can be used the year round for gardening, housework, yard, painting, furnace, garage, etc.

Sizes for WOMEN (small, medium, large)—for MEN (small, medium, large). Price, 75 cents a pair, postpaid. (2 pr. \$1.40.)

National
EEzy Wear GARDEN GLOVES

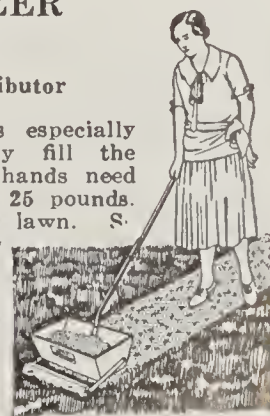
VIGORO FERTILIZER DISTRIBUTOR

A Fertilizer and Seed Distributor

This great new lawn tool was especially designed for small lawns. Merely fill the hopper from the container (your hands need not touch the material). It holds 25 pounds. Set the slide and run it over the lawn. So simple, so easy, a child can run it. Spreads 14 inches wide and operates faster than a lawn mower.

Very substantially constructed and has quick acting slide adjustment.

Price \$5.75



Bulbs for Early Spring Should be Planted in the Fall

Darwin Tulips, Hyacinths, Daffodils, Narcissus, Crocus, Calla Lily, Freesias, etc. We carry a complete line, import our Hyacinths, Tulips and Crocus direct from Holland in large lots and offer high-grade bulbs at attractive prices. We issue a Fall Bulb circular during September and if interested, ask for one.



Canna—City of Portland

CANNAS

Our stock is first-class in every respect. We handle enormous quantities of Canna Bulbs and can offer at the following attractive prices:

WYOMING—This is a bronze or dark-leaved variety with rich orange flowers borne on stately stems. Each, 10c; doz., 50c, postpaid.

KING HUMBERT—4 to 5 feet, bronze foliage. Flowers very large, five to six inches across. Flowers a glowing scarlet or orange red, often streaked with gold. Each, 10c; doz., 50c; 100, \$3.00, postpaid.

RICHARD WALLACE—Dainty shade of Canary yellow, about four feet tall and having bright green foliage. Each, 10c; dozen, 50c; 100, \$3.00, postpaid.

CITY OF PORTLAND—Salmon Pink. Large flowers, height four feet. Foliage green. Each, 10c; dozen, 75c; 100, \$4.00, postpaid.

FIERY CRIMSON BEDDER—3½ to 4 feet. Intense crimson green foliage. Each, 10c; dozen, 50c; 100, \$3.00, postpaid.

RED AND YELLOW SPOTTED—Green foliage, 4 feet. Each, 10c; dozen, 50c; 100, \$3.00, postpaid.

MIXED COLORS—Each, 10c; dozen, 50c; 100, \$2.75, postpaid.

TUBEROSE BULBS

Easily recognized by its exquisite fragrance and beautiful flower spikes, which are borne on long stems, making it an admirable cut flower.

DWARF EXCELSIOR PEARL—Each, 10c; dozen, 60c, postpaid.

ELEPHANT'S EAR

CALADIUM ESCULENTUM—Known to almost everyone. A number of stems come from a single bulb, growing 4 to 5 feet high, with a single leaf, which often measures 18 inches or more across. Put out early in the spring in rich soil, give plenty of water, and it will be a pleasure to watch its development through the season. Large bulbs. Each, 25c; postpaid, 35c.

Bedding Plants and Hardy Perennials

During the spring months we carry a good assortment of the following plants:

GOLDEN GLOW	PETUNIA
IRIS	SALVIA
SHASTA DAISY	SNAPDRAGON
FOXGLOVE	VERBENA
CANTERBURY BELL	VINCA or PERIWINKLE
HARDY PHLOX	ZINNIA
HOLLYHOCKS	MARIGOLD
	MOON VINE

Prices gladly quoted on request.

Perfection Brand Exceptional Dahlias

STRONG FIELD GROWN DIVISIONS

DECORATIVE—This is the large open faced type with broad, usually flat petals to which class we owe so many of our finest Dahlia flowers.

COMMODORE—Gigantic flowers, lemon yellow flushed golden. 30c each, postpaid.

FRANCIS LAROCCO—One of the finest yellow decorative Dahlias; very fine, long stems; large deep flower; vigorous grower; prolific bloomer. Price 25c each, postpaid.

MRS. DE VER WARNER—Large perfect flowers of a charming color; on stout stems. A good grower and free bloomer (mauve pink). Price 25c each, postpaid.

IDA DEVER WARNER—Large lavender, very good, one of best Dahlias grown. 25c each, postpaid.

JEAN KERR—Pure white, fine cut flower. 25c each, postpaid.

JERSEY'S BEAUTY—A perfect bloom of erosion pink, best pink Dahlia to date. 25c each, postpaid.

MONMOUTH CHAMPION—Outstanding giant flower of flame scarlet, immense in size and free flowering on the best of stems. 25c each, postpaid.

PAUL BONYON—Shrimp pink. Large fluffy bloomer. Price 25c each, postpaid.

SAGAMORE—A golden color, shaded toward the center with warm salmon-rose or orange buff. Good stem and keeping qualities. Price 25c each, postpaid.

THOMAS EDISON—Dark purple, very large blooms. 30c each, postpaid.



Dahlia

Perfection Brand Selected Gladioli Bulbs

Plant in the spring when all danger of frost is over. Plant bulbs four to eight inches apart in the row and from three inches deep in heavy soil, to five inches deep in lighter, sandy soil; the deeper planting will help to keep the plants from falling over at blooming time. Keep soil well worked; keep soil crust from forming in the rows after rains or other watering. Nitrate of Soda (a tablespoonful to two gallons of water to 25 plants) once a week after plants break into bud is highly recommended. Our bulbs are grown in Iowa, where the soil and climate are especially adapted to producing strong, healthy bulbs.

All No. 1 Bulbs—large size.

CHICAGO—Pure white. Per dozen, 50c; per 100, \$3.00, postpaid.

PICARDY—A most sensational flower of delicate flesh-pink. Large blooms and many open at one time. Per doz., 55c; per 100, \$4.00, postpaid.

ANNA EBERIUS—A most unusual and desirable color—deep velvety purple. Large blooms. Per doz. 55c; per 100 \$3.50, postpaid.

LE MARSCHAL FOCH—Beautiful shade of light pink flowers, about twice the size of America; one of the earliest. Per dozen, 50c; per 100, \$3.00, postpaid.

E. J. SHAYLOR—A tall majestic spike with beautiful ruffled blooms of a deep rose pink color. Dozen, 50c; 100, \$3.50, postpaid.

GOLD EAGLE—Beautiful ruffled variety of a clear, deep yellow. Per doz. 50c; per 100 \$3.25, postpaid.

VIRGINIA—The large scarlet flowers open six or more at a time. Doz., 55c; 100, \$3.25, postpaid.

PERFECTION MIXTURE—A first-class mixture of bulbs that will produce an array of color and fine flowers for cutting. Per doz., 35c; per 100, \$2.50, postpaid.

PEONY BULBS

Peonies like a place in the sun, and dense shade will injure them. Light shade is not objectionable. Good garden soil, enriched with bone meal and well drained and limed, is needed for peonies. Not more than two or three inches of soil should be placed above the crown,



Selected Gladioli

from which the eyes start. Our bulbs or roots are all good, strong divisions averaging 3 to 5 eyes.

DUCHESS DE NEMOURS—Superb ivory white; large, fragrant; vigorous; good stems; blooms freely. Each, 30c; dozen, \$2.75.

FESTIVA MAXIMA—Very large; white flecked carmine; fragrant; early; tall. Each, 35c; dozen, \$3.50.

MADAM CALOT—Very delicate pink, becoming white; strong stem; blooms freely, fragrant. Each, 40c; doz., \$4.00.

DUCHESS d'ORLEANS—Dark carmine, pink guards, center soft pink and salmon. Strong, vigorous growth; very tall. Each, 35c; doz., \$2.50.

FRAGRANS—Deep pink to red; fragrant; very late; blooms freely. Each, 35c; doz., \$3.25.

REINE DES FLEURS—Clear pink. Each, 35c; doz., \$3.25.

RED—Each, 45c; dozen, \$5.00.

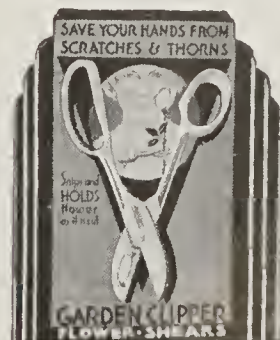


Duchess De Nemours Peony

GARDEN CLUB FLOWER SHEARS

Wonderful help for cutting and gathering flowers. Snips and holds in one motion. Unique device grips stem as it is cut. You avoid thorns and scratches. Handy for picking flowers that are hard to reach.

Price 50c; 2 for 95c.



Perfection Brand High Tested Farm Seeds

Prices on all farm seeds subject to market fluctuations. We urge that you write us your needs, and it will be a pleasure to us to quote you the very lowest prices on Perfection Brand Seeds. Remember, we are here to serve you in any capacity we can.



A Field of Perfection Brand Alfalfa

ALFALFA



ALFALFA is the most profitable crop by far grown in Kansas, Oklahoma, Texas, New Mexico, Arizona, Colorado, Idaho, Utah, Wyoming and Nebraska. No other crop on a twenty-year average produces nearly as many dollars per acre as does Alfalfa.

Cultivation is very simple, the essentials being well drained soil, at least eight feet to permanent water, shallow planting, thorough harrowing and packing.

PERFECTION BRAND ALFALFA SEED is the highest grade of American grown seed, testing 99.50 per cent pure. Per lb., 40c, postpaid; by freight or express, lb., 35c; 10 lbs., \$3.00. Write for special price in quantities.

CLOVER

RED CLOVER—The most important and best known of all clovers, being used for pasture, hay, and enriching the land. For the latter purpose it is considered the cheapest fertilizer known. Lb. 45c, postpaid; by freight or express, lb. 40c; 10 lbs. \$3.75.

ALSIKE OR SWEDISH CLOVER—The heads are globular, very sweet and fragrant and much liked by bees, which obtain a great amount of honey from them. It produces a great amount of herbage during the season; the stalks are very fine; it makes a valuable hay crop where other clovers fail. Sow from 4 to 6 pounds per acre. Lb. 45c, postpaid; by freight or express, lb. 40c; 10 lbs. \$3.75.

CLOVER

WHITE CLOVER—For lawn purposes this is very desirable on account of its creeping stems. It spreads rapidly and acts as a binder; very hardy; in permanent pastures is of considerable value. Lb. 55c, postpaid.

BLACK MEDIC—A wonderful clover that is hardy enough to be grown as far north as the Ohio River. It spreads as fast or faster than most any other clover, and the only soils it will not thrive on, provided they are sweet, are the loose sandy and water soaked type. May be sown from early September to March, the earlier the better. It is an excellent hay plant, even with a short growth, and it has no equal for permanent pastures for late winter and spring grazing, dying down by July, and reseeding with the closest grazing. It can also be used to excellent advantage for cover crop. Sow 10 to 15 lbs. per acre. Lb. 35c, postpaid. Ask for quantity prices.

KOREAN LESPEDEZA—This variety makes a larger growth than ordinary Japan Clover, 15 to 24 inches, single plants having a spread of 3 ft.; has larger leaves; furnishes pasturage about three weeks earlier. The strong root growth penetrates about 8 inches deep, making it highly drouth resistant, and thriving on poor, wornout soils where alfalfa and clovers would fail. Its feeding value is about equal to Alfalfa; has no woody stem; holds its leaves well, and produces a full crop the first season. When sown alone broadcast 10 to 15 pounds per acre, during late freeze after a light harrowing, but do not cover the seeds. Per pound, postpaid, 30c; 10 lbs. \$2.50. Write for prices on quantities.

YELLOW HOP CLOVER—It is a very valuable winter and spring clover, and reseeds abundantly. It responds well in increased growth to an application of phosphates, as do all winter legumes. Sow 4 to 8 lbs. per acre. Lb. 45c, postpaid. Ask for quantity prices.

Soil Testing

We have installed a laboratory to test soils. Such tests supply valuable information regarding plant food supplies from which it is possible to make recommendations for the proper use of fertilizers.

Ask us for particulars.



Clover

SWEET CLOVER

Sweet Clover is a crop that is hardy; defies wet and drouth; never winter kills, and will grow on land that will not produce Alfalfa. Many wet, waxy soils are being farmed unprofitably by other crops that would produce a large crop of Sweet Clover, and furthermore, Sweet Clover will turn that poor land into land that will, within four or five years, be nearly 100 per cent better for any other crop that the farmer wants to put there.

Sweet Clover has long, deep roots that permit water and air to penetrate to the lower levels of the soil and thus greatly aids the mechanical condition of the soil. As Sweet Clover is a legume it increases the nitrogen content of the soil. Wheat, Corn or Alfalfa grown on a field following Sweet Clover are greatly improved. Yields of 10, 15 and 25 per cent increase are not at all uncommon.

Sow in the spring. It takes about twenty pounds of hulled seed to the acre. 25c per pound, postpaid. Write for prices in quantities.



A Field of Sweet Clover

READ THIS!

It must be made emphatic that all clovers far outclass the non-legume crops for building the soil. The qualities making clovers useful in this respect are their extensive root system and their power to gather nitrogen from the air. Experiments show that 30 to 50 per cent of the fertilizing value of a clover crop is in the roots and stubble, which adds nitrogen and humus to the soil. A good crop of clover will add to the soil in a single season 200 pounds of nitrogen to the acre. Since the nitrogen is taken from the air, it represents a profit in the form of fertilizer for the land.



Soy Beans in Corn

SOY BEANS

Soy Beans are very erect, growing with from one to six stems or more, branching out from the roots, and reaching a height of 1½ to 3½ feet; seldom falling down, except in very rich, loose soil. Soy Beans are a remarkable drouth-resister, and will do comparatively well on thin land; however, they respond very readily to moisture and rich land. Planting should not be done until the weather is warm and after the corn planting.

LAREDO SOY BEANS—The seed is very small, flat in shape and black in color. As a soil builder it is unequalled. The quality of hay in feeding value is fully equal to Alfalfa. On reasonably fair land it will produce from 15 to 20 bushels of seed per acre and 2 to 3 tons of hay. Price per pound, postpaid, 25c. Write for quantity prices.

VIRGINIA—About 20 days earlier than the Mam Yellow or Laredo. The vines make a fine growth, are filled with pods, stand about 3 feet high, are easy to cut and easy to cure. Lb. 20c; pk. \$1.50, postpaid. Write for bushel prices for shipment by freight or express.

INOCULATE

Alfalfa, All Clovers,
Soy Beans, Cow
Peas, Vetch, Peas,
Peanuts and all
other Legumes.



See Inside Front Cover.



A Field of Mung Beans

MUNG BEANS

Mung Beans bid fair to outrival anything yet discovered as a hay, forage and soil improving crop. Mung Beans are drouth resistant and have made wonderful crops of hay and forage where cow peas and soy beans have been killed off completely by the blistering and withering heat of an extended summer's drouth.

Mung Beans mature about fifteen days earlier than Soy Beans and Cow Peas and invariably have produced larger tonnage of hay and forage as well as large production of beans. Grows 4 to 6 feet tall and is one of the finest soil improvers discovered. 2 lbs. of Mung Beans will produce about 2 tons of cured hay. Requires about 4 lbs. per acre. Plant in rows about 3½ feet apart and 2 to 4 inches apart in the rows. Trial packet, 10c; lb. 25c; 5 lbs. \$1.00, postpaid. Larger quantities, write for prices.

Number of Plants to Acre at Given Distances

Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants	Dis. apart	No. Plants
12 x 1 in.....	522,720	20 x 1 in.....	313,635	30 x 16 in.....	13,068	36 x 36 in.....	4,840	48 x 36 in.....	3,630
12 x 3 in.....	174,240	20 x 20 in.....	15,681	30 x 20 in.....	10,454	42 x 12 in.....	12,446	48 x 48 in.....	2,723
12 x 12 in.....	43,560	24 x 1 in.....	261,360	30 x 24 in.....	8,712	42 x 24 in.....	6,223	60 x 36 in.....	2,901
16 x 1 in.....	392,040	24 x 18 in.....	15,520	30 x 30 in.....	6,970	42 x 36 in.....	4,148	60 x 48 in.....	2,178
18 x 1 in.....	348,480	24 x 24 in.....	10,890	36 x 3 in.....	58,080	48 x 12 in.....	10,890	60 x 60 in.....	1,743
18 x 3 in.....	116,160	30 x 1 in.....	209,088	36 x 12 in.....	14,520	48 x 18 in.....	7,790	8 x 1 ft.....	5,445
18 x 12 in.....	29,040	30 x 6 in.....	34,848	36 x 18 in.....	9,680	48 x 24 in.....	5,445	8 x 8 ft.....	1,815
18 x 18 in.....	19,360	30 x 12 in.....	17,424	36 x 24 in.....	7,260	48 x 30 in.....	4,356	8 x 8 ft.....	681



Austrian Winter Peas

AUSTRIAN WINTER PEAS

An outstanding winter legume cover crop. Plant in September or October and plow under in the spring before time to plant the spring crop. It makes more growth in the spring than Vetch, produces more green material per acre and the vines decay more rapidly. If planted alone sow 50 lbs. per acre. If with Rye or Barley, use 30 lbs. of Peas with one bushel of grain. Lb. 20c, postpaid; by freight or express, lb. 10c; 50 lbs. \$4.00.

Sow More Permanent Mixtures of Grasses and Clovers

The need for better pastures has become more and more apparent and has been felt this year more keenly than in former years. All authorities agree that a mixture of grasses will yield a better crop than a single grass. When using a good mixture you are sure to get a good catch and to have a good permanent pasture that lasts from early spring until late fall.

The following mixture is one that has proven very satisfactory.

Amount per acre—
 2 lbs. White Dutch Clover
 3 lbs. Yellow Hop Clover
 2 lbs. Orchard Grass
 4 lbs. Korean Lespedeza
 5 lbs. Dallis Grass
 2 lbs. Bermuda Grass
 2 lbs. Red Top Grass

Price per pound on the above mixture 50c; 10 lbs., \$4.50, postpaid. For quantities, write us stating number of pounds you will require.

A BRIGHTER OUTLOOK

The farmers of the southern half of the United States are learning that more legumes should be planted. By the aid of bacteria growing in the nodules of their roots, these plants are able to use the nitrogen of the air, thus adding to the store of nitrogen in the soil. Alfalfa, Clovers, Cow Peas and many other items described in this book belong to this family. We strongly urge you to PLANT MORE LEGUMES.

Field or Cow Peas



THE GREAT SOIL IMPROVER—Makes poor land rich; makes good land more productive; also makes a splendid and nutritious green forage or hay crop, enriching the soil even when the crop is cut off. Cow Peas make one of the largest yielding and most nutritious crops grown. There is also no surer or cheaper means of improving and increasing the productiveness of the soil and it is really considered more economical and the best way is to cut off the crop of vines and cure them as a forage or hay crop and then turn under the stubble and roots. Even when the crop is cut off, the land is left in very much better mechanical condition and the productiveness very much increased over what it was before the crop was grown.

CREAM CROWDER PEAS—It is not only one of the earliest to mature, but also makes a large and vigorous growth, and is one of the most prolific and best for edible peas, both for home use and market. The size of the pea is large and they are of most delicious flavor when cooked, and preferable for table use to other varieties. This also makes a quantity of vine. Price, lb. 30c, postpaid.

BLACK-EYED PEAS—A very fine table pea much in demand by market gardeners. Pods are of good size and the peas are crowded in the pod. Lb. 25c, postpaid.

NEW ERA—Probably the best sort for the West and North; can be sown after the wheat is taken off the ground and still produce a good crop of forage peas, besides increasing the fertility of the soil for the succeeding crop, and leaving the ground mellow and free from weeds. Ask for prices.

WHIPPOORWILL PEAS—A favorite in the South generally. A vigorous, healthy grower, yielding an abundant crop of forage and grain. Write for prices.

BROWN SUGAR CROWDER PEAS—One of the most valuable varieties for table use. Heavy bearers of the finest quality. Lb. 25c, postpaid. Bv freight or express, lb. 20c; 10 lbs. \$1.50.

GALLAVANT OR LADY—The peas are small in size, of very fine flavor; superior in qualities to the Black-Eyed Peas. Very prolific. Price per pound, 25c, postpaid. By express or freight, lb. 20c; 10 lbs. \$1.50.

We are large dealers in Cow Peas and are in a good position to quote you attractive prices in lots of one bushel to a carload. Write us. If you have Peas to sell, send us a sample, stating quantity you have to offer. Make up and send us your order early.



A Field of Cow Peas

Perfection Brand Seed Corn

OHIO GROWN CORN

All early varieties. The continued drouth in Oklahoma necessitates the planting of early varieties of corn early. Treat your corn with Semesan Jr. It kills seed borne diseases and keeps seed from rotting during cold wet weather.

	Per Peck	Per Bushel
Clark's Early Strain Reid's Yellow Dent	\$.75	\$2.65
Clark's 90 day Yellow Dent	.75	2.65
Clark's Iowa Gold Mine	.75	2.65
Clark's Early White Dent	.85	3.75

ENSILAGE CORN

Virginia Grown

Virginia is noted for its high quality Ensilage Seed Corn. We offer two varieties that under normal conditions will yield 12 to 15 tons of silage per acre.

	Per Peck	Per Bushel
Red Cob Ensilage	\$1.00	\$3.50
Golden Ensilage	1.00	3.50

OKLAHOMA GROWN CORN

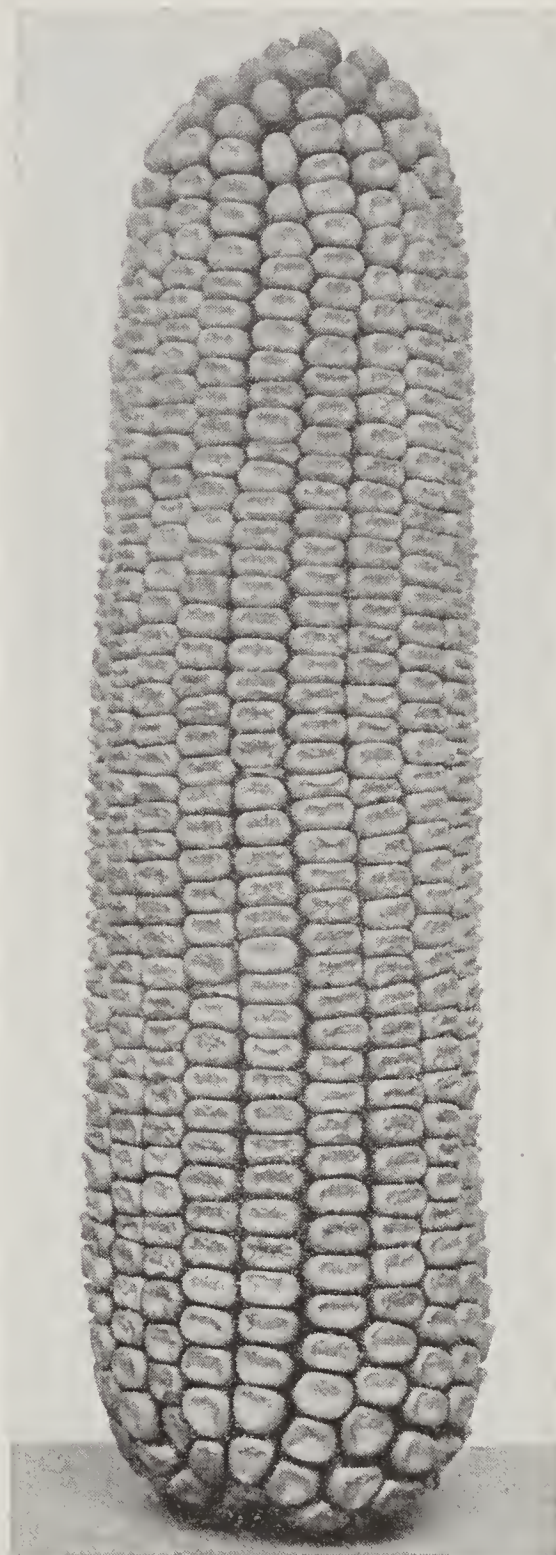
For main crop. Hand picked, butted and tipped.

	Per Peck	Per Bushel
Reid's Yellow Dent	\$1.00	\$3.25
Silver Mine	1.00	3.25
Red Mexican June	1.00	3.50
White Mexican June	1.00	3.50
Southwestern Yellow Dent	1.00	3.50
Hay's Golden—An early type originated in Kansas	1.00	3.50

SOUTHEAST MISSOURI GROWN CORN

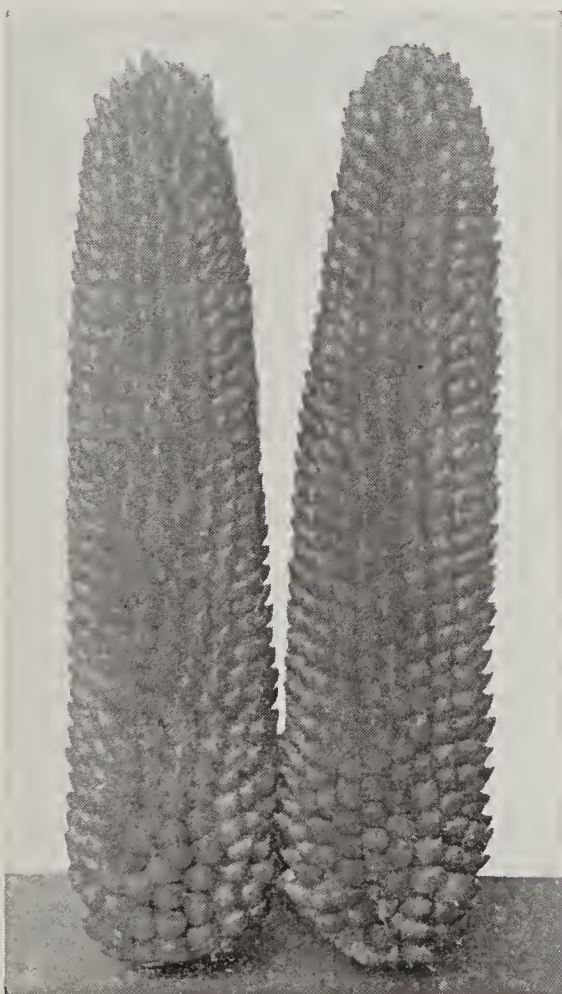
For main crop. All hand-picked, butted and tipped and graded.

	Per Peck	Per Bushel
Leaming Yellow Dent	\$.80	\$2.65
Boone County White	.80	2.65
St. Charles White-Red Cob	.80	2.65



Corn—Mexican June

If you have Stock Peas, Soy Beans or Mung Beans to sell, submit samples stating quantity that you have to offer.



Popcorn

POP CORN

Culture—Pop Corn is a very profitable crop, yields well even in unfavorable seasons and there is most always a good market for it. Plant at rate of 3 to 4 quarts per acre in drills 3 feet apart, dropping seed 1½ feet apart in the rows. Or plant in hills, using 4 to 6 pounds of seed per acre. Cultivate the same as field corn. May be planted with regular corn planter, using special plates.

JAPANESE or HULLESS—A splendid white corn, productive, having very little hard center or hull when popped. By mail, lb., 25c; by freight or express, lb., 20c; 10 lbs., \$1.75.

SOUTH AMERICAN LARGE YELLOW—A very fine variety of large yellow corn and in great demand by the poppers. Lb., 30c; 5 lbs., \$1.30, postpaid.

BUCKWHEAT

Buckwheat is used mostly for filling fields unplanted after the first of June. The blossoms furnish a large amount of honey for bees. It is well to remember that on worn-out soils a plowed-under buckwheat field is a great fertilizer and improved. Sow 25 lbs. to an acre.

JAPANESE—A popular and standard sort. Very large grains of dark brown color; early and heavy-yielding. Choice re-cleaned seed. Lb., 15c; 10 lbs., \$1.30, postpaid.



Hogs in Field of Dwarf Essex Rape

Dwarf Essex Rape

Sow 5 to 7 pounds per acre. As a healthy fattening food it has no equal. It stands without a rival in point of cheapness and feeding qualities. It is an annual, bearing a close resemblance in leaf and stalk to the rutabaga, but both leaves and stalks are more numerous in the rape plant and of a taller habit of growth. Dwarf Essex Rape thrives best on a good soil rich in vegetable matter. Slough lands are excellent. It is the simplest crop grown. It can be sown anywhere and everywhere and at all times after danger of frost has passed.

It may be sown in early spring to provide summer pasture for stock. Plow the ground same as for turnips, and sow 5 pounds per acre broadcast.

Special prices on large quantities. Lb., 20c, postpaid. By freight or express, lb., 15c; 10 lbs., \$1.25.

SUNFLOWER

MAMMOTH RUSSIAN—Produces very large heads, which are completely filled with the striped grains. It succeeds everywhere, and requires very little rain to insure a good crop. It makes a good food for stock and cannot be equaled as a food for poultry. Plant when the ground has become warm at the rate of 22 pounds to the acre. Lb., 35c, postpaid; by freight or express, lb., 30c; 10 lbs., \$2.00.



VETCHES

SAND VETCH—(Also called Winter and Hairy Vetch)—This legume is the farmer's ever-ready friend. Sand Vetch is a very popular forage plant, and is rapidly becoming popular as year after year farmers are learning more of its value. It is an annual, but re-sows itself, and will come up year after year on the same ground. Vetch is a legume, belonging to the pea family, but the vines are much longer and the foliage more abundant. It is noted for its extreme hardiness, wintering more certainly than wheat. It remains green all winter under the snow, and is ready for pasturing earlier than anything else. Drouth, heat and cold do not affect it. It is largely eaten by all kinds of stock. We earnestly recommend farmers to try it. Lb., 30c, postpaid; by freight or express, lb., 25c; 10 lbs., \$1.85.

Winter Legumes for Fall Planting

Hairy Vetch Hungarian Vetch Austrian Winter Peas

FOR WINTER PASTURE—Plant Winter Rye Grass during September. Rye grass is the fastest growing grass known. Makes more pasture than Wheat, Rye, Oats or Barley. Lasts up to latter part of June, when if given a chance will reseed itself, starting to grow again when fall rains set in.

RYE GRASS also makes a fine green fall, winter and spring lawn sown on Bermuda sod or as a new lawn. We issue a special circular in August on Winter Legumes and Rye Grass and will be glad to mail copy on request.



Mammoth Russian Sunflower

PEANUTS

Culture—Prepare the ground well, laying it off in rows, with a shovel-plow; the rows should be 3½ feet apart, and put two kernels to the hill, which are about 1 foot apart. Cultivate thoroughly, and keep the land as level as possible. Three-fourths of a bushel of unshelled nuts will seed an acre.

MAMMOTH JUMBO—This variety grows to an astonishing size. The plants make compact bushes about 18 inches high, with heavy, erect stalks and large leaves. The giant nuts have thick, heavy-ribbed shells. Lb., 30c, postpaid. Write for prices in quantities.

TENNESSEE RED—The finest variety grown. Especially adapted to the black waxy land, as well as the sandy soil. The nuts contain three large kernels in each pod, and are enormously productive. Lb., 25c, postpaid.

SPANISH—In addition to their value for growing for nuts, these are very largely used in the South as a forage and fattening crop for hogs and other stock. They are early to mature, very productive, and in the far South, where they can be planted during March and April, two crops can be made in one year, the second crop being planted early in July, the tops making a hay crop and the nuts a grain crop. They grow more compact than the Virginia peanuts, making it possible to grow them closer, making cultivation easier also. This variety frequently yields 60 bushels of marketable peanuts and 2 tons of hay per acre. Lb., 20c, postpaid.

POSSIBLE FAILURE OF SOIL INOCULATION

Inoculation, while giving striking benefits, is by no means a cure-all for soil troubles. The bacteria concerned require satisfactory soil conditions if they are to flourish. In a very sour soil they do poorly and their growth can readily be improved by time. If a farmer is uncertain regarding the acidity of his soil, it is well to have the soil tested before seeding leguminous crops. For legume, as for any other crop, the seed-bed should be well prepared, the soil well drained, and its acidity neutralized by the use of lime.

EVER GREEN
KILLS ANTS AND GARDEN INSECTS

See page 37 for full description and prices.

Grasses for Pasture and Lawns



Sudan Grass

SUDAN GRASS

SUDAN GRASS—The heaviest-yielding, most drouth-resisting hay grass ever introduced. Sudan Grass combines all the good features of Johnson Grass and has none of the objections. Sudan Grass is sown in the spring, as soon as danger of frost is past, either broadcast or in rows so that it can be cultivated. If in rows, 3½ feet apart, 5 to 6 pounds to the acre will be required; if sown broadcast, 15 to 20 pounds. It stools freely and often from 80 to 100 plants may be found coming from one seed. As a drouth-resister, it has no equal, and may be depended upon when all other grasses succumb to dry weather. It may be mowed or cut with binder; the latter method is preferred, as Sudan Grass cures admirably well in shocks. Lb., 25c, postpaid. Write for prices in larger quantities.

Write for lowest market prices when ready to buy.

TIMOTHY—The most popular, nutritious, and salable hay grass. There are better grasses for pasture, but none for hay. Grazing close does not injure the second year's crop. Write for prices, stating quantity. Lb., 20c, postpaid.

KENTUCKY BLUE GRASS—An excellent pasture and lawn grass, succeeding best on limestone land, but does well on stiff or clay soils. It is rather sensitive to heat, but not to cold weather, and on this account does best in the spring, fall or winter. Sow in the fall or spring at the rate of 2 or 3 bushels to an acre. Lb., 40c, postpaid.

MEADOW FESCUE or ENGLISH BLUE GRASS—We regard this as one of the most valuable grasses as it adapts itself to different conditions of soil and climate. Especially suited for permanent pasture; also fine for hay. It gives a large amount of early and late pasture. It is a persistent grower; its roots penetrate deeply; it does well on wet or dry bottoms, hillsides, gravelly clay, and loamy lands. It never freezes out or winter-kills and is not easily affected by drouth. Sow 15 to 25 pounds per acre. Lb., 30c, postpaid.

RED TOP—Grows well in all soils, whether sandy, thin, dry lands or rich, wet soils. It is one of the most satisfactory grasses that can be sown; a fine pasture grass and is well suited for meadows. It sends out shoots at the base that take root at every joint, forming a dense, thick sod. Sow 10 pounds to the acre. Lb., 35c, postpaid.

DALLIS GRASS

DALLIS GRASS—In the experience of agricultural men throughout the South this plant may be acclaimed the "king of pasture grasses" because it comes nearer growing the year round than any other grass, whether in mild winter or dry summer; stock prefer it, fatten better, stops washed places quicker, and when well sodded it will give more high-class grazing than any other grass we know. Grows freely with Black Medic, Lespedeza and Bermuda. When well sodded and closely grazed it largely chokes out objectionable weeds. This grass is a rapid grower except in cold weather but as soon as a few mild days follow a freeze, it roots immediately and sends up new leaves. Gives fastest growth on most soils and satisfactory results on dry hill land, also. Sow 10 to 15 lbs. per acre. Lb., 40c, postpaid. Write for prices on quantities.

BERMUDA GRASS—Bermuda is a Southern grass. It delights in sunshine and warmth. It is extensively cultivated in this section of the country for lawns. It is very difficult to eradicate when once established. The seed should be planted in the spring. Seed requires 30 to 60 days to germinate. The ground should be well prepared with a good, firm seed bed, as the seed is small and is seeded broadcast at the rate of 10 pounds per acre. Do not cover more than half an inch. The seeding should not be done too early, as the seed will not germinate if sown before the weather and ground have become warm. Lb., 50c, postpaid.

BERMUDA GRASS-HULLED—Ordinary Bermuda seed is sometimes very slow to germinate. This year we are offering hulled Bermuda Seed which will germinate in a week to ten days. Do not plant before May as the soil must be warm for the seed to germinate. Price on hulled seed 75c per pound; 10 lbs., \$7.00, postpaid. Write for quantity prices.

ORCHARD GRASS—This is one of the most valuable and widely known of all pasturage grasses, coming in early in the spring and remaining green later in the fall than any other. It grows about 2½ feet high, producing an immense quantity of leaves and forage. Sow 1½ bushels to an acre, either spring or fall. Lb., 40c, postpaid.

RYE GRASS—Domestic grown seed. Used as a winter lawn and winter pasture. Planted on Bermuda sod during August or September at the rate of one pound to 100 square feet makes a fine green lawn during the fall, winter and spring, lasting until June. For pastures plant during August or September at the rate of 35 lbs. per acre. Lb., 20c; 10 lbs., \$1.60, postpaid. Write for prices on larger quantities.



Dallis Grass

Perfection Brand Grain Sorghums



Dwarf Black Hull White Kafir

KAFIR

KAFIR—The uplands of Kansas, Oklahoma and Texas will give much better cash returns when planted to Kafir, because when ground for feed, gives practically the same feeding value as corn. It does not require very much Kafir to seed an acre when drilled in rows $3\frac{1}{2}$ feet apart. 2 to 4 pounds of seed to the acre is all you will need. If you want to sow the seed broadcast or drill it with a drill for fodder, use 50 to 75 pounds per acre.

DWARF BLACKHULL WHITE KAFIR—Lb. 20c, postpaid.

HEGARI

HEGARI—A new grain or forage crop similar to both White Kafir and Feterita. It is more desirable for grain than either, as the bad qualities of both have been eliminated. Feterita shells out pretty badly, and Hegari will not shell. Feterita is soft and pithy, while Hegari is solid and sound and with plenty of blades. Its dwarf habit of growth, 4 to 5 feet in height, and compact heads of large white grains make it very attractive. Hegari also produces large crops of grain. The stems are rather sweet and horses and cattle eat the stalks, fodder and grain if permitted to do so.

ARIZONA GROWN HEGARI—Registered stock, well recleaned and of high germination. Per pound, postpaid, 20c. By freight or express, lb., 15c; 10 lbs., \$1.00; 50 lbs., \$3.50.

DARSO

DARSO is low growing, heavily foliaged, and has a large stalk which is usually tinged with red. It is remarkable for its uniformity in height and uniformity in shape and color of heads. The stalks are sweet and juicy, and chemical analysis of grain shows that the composition is very similar to that of Kafir. Darso matures earlier than Kafir, which fact has much to do with its drouth resistance. Darso makes excellent silage, and can be used for grain, forage or silage crop. Lb., 20c, postpaid.

MILO

STANDARD YELLOW MILO MAIZE—Grows 8 to 10 feet high. Per lb. 20c, postpaid.

DWARF YELLOW MILO—A dwarf improvement of the old Standard Yellow Milo. Grows 3 to 4 feet high, while the old variety grew 8 to 10 feet. Dwarf Milo is quite similar to the Standard Milo, but the heads all invariably bend over from the weight. It is not unusual for a head of Dwarf Milo to weigh one pound. The feeding value is the same as Yellow Milo. This variety seems to be more popular throughout the western plains of Kansas and Oklahoma. Lb. 20c, postpaid.

FETERITA

FETERITA—Grows from 6 to 8 feet high. The plant resembles Kafir, but the stalks are much more slender. Feterita should be planted in rows three and one-half feet apart and the seed should be dropped from eight to fourteen inches apart in the row. When Feterita gets up about eight inches high, it branches out from four to ten sucker plants and each of these sucker plants grow up the same as the main plant. On account of this suckering habit of Feterita it should be planted thinner than Kafir or Milo. The first or main seed head ripens 15 to 30 days before the heads of the suckers are mature enough for grain. The grain is white like White Kafir and about twice the size. Feterita matures in from 80 to 90 days from date of planting. Feterita is a great drouth resister, and in this respect will withstand continued heat and drouth better than either Kafir or Milo. Lb. 25c, postpaid.

MILLET

CULTIVATED GERMAN MILLET—Our stock of big German Millet is grown in rows and cultivated for seed purposes only. This makes a large yielding and most nutritious hay crop, quick growing and easily cured. Grows 4 to 5 feet tall with heads 5 to 6 inches long. Per lb. 20c, postpaid.

During fall months we have large stocks of Northern-grown Seed Rye, Southern Abruzzi Rye, Certified Wheat, Certified Winter Barley, Austrian Winter Peas, Hairy Vetch, all Clovers and Grasses. If interested in Seeds for fall planting we will appreciate your inquiries.

SPECIAL DIRECTIONS ABOUT SOWING—Nearly all grass seeds are very small and will not come up satisfactorily unless put in properly, and again, most planters will not use enough seed to the acre. The soil should be thoroughly prepared by deep breaking and thorough harrowing until a smooth bed is made, and the ground should be settled thoroughly before sowing. After sowing the seed, very little covering should be given with a brush or harrow that will cover it lightly. If the weather is likely to be dry, the ground should be pressed over the seed, so as to bring the seed in close contact with the soil to hold the moisture until the seeds get a good start.

HYDRATED LIME

An occasional application of Hydrated Lime on the lawn will correct acidity in the soil. Acid soils are usually caused by constant sprinkling and very often in shaded places of the lawn will be found a surface growth of green moss. Hydrated Lime will correct this by simply being applied on the surface and sprinkled. It loosens up heavy soils and prevents packing, baking and cracking. It promotes the normal decay of organic matter in the soil. It requires about one-half as much Hydrated Lime as any other form of lime to produce same results. Price for 10 lb. pkg. 20c each; 40 lb. bags, 45c.



Big German Millet

Perfection Brand Saccharine Sorghums

(FOR FORAGE)

JAPANESE RIBBON CANE

While this variety is grown extensively for syrup, it is an ideal sort for silage, when a large tonnage per acre is desired. Usually grows 10 to 12 feet tall, producing 60 to 100 gallons of fine flavor syrup per acre. Our stock was grown especially for us from high bred seed. Pound, 30c, postpaid.

BLACK AMBER—90 days, the old original early variety grown almost exclusively for forage crop either alone or broadcast with cowpeas. Fodder quality.

EARLY ORANGE—Matures a grain crop in 110 to 120 days. It is later than the Amber. Its stalks are heavier and shorter than the Amber. Its forage quality is first-class. Is very valuable for ensilage. One of the heaviest producers of ensilage of the entire sorghum family. Fodder quality.

RED TOP or SUMAC—In our opinion this is the best variety for forage or dry hay. The stalks are much smaller than either of the Amber or Orange varieties. It requires 130 to 140 days to mature a seed crop. We do not recommend this variety for ensilage as strongly as we do the larger stalk varieties, but many of our customers say it makes very excellent ensilage. There is no better quality for forage than the Red Top. It will remain sweet and wholesome until late in May of the year following harvest.

SEED OF ALL CANES ARE VERY SCARCE. WRITE FOR PRICES WHEN READY TO BUY.

Our Field Seeds Are All of Very High Quality

There are several grades of field seeds on the market and prices differ according to grade. Be careful when buying, especially when you see seeds offered for considerably less than market value. Ask for prices when you are ready to buy.



Black Amber Cane

Broom Corn

SCARBROUGH DWARF No. 7—Our stock of this seed is from the originator. It is truly a wonderful variety of Broom Corn. The seed grows close out on the tips of the fiber and it has a straight full tip, with a very smooth round knuckle, and very fine, round, straight fiber, ranging in length from 14 to 20 inches as a rule with butts about

six inches long, and when harvested at the proper time the brush has a deep pea green color of very tough, wiry fiber. It is a wonderful drouth resister. The seed being all on the very tips of the brush make it very easy for the seeder to remove seed from the brush. Per lb., 40c, postpaid. Write for prices on larger lots.

Root Crops for Stock Feeding—Mangel Beets

CULTURE. The Mangels may be grown in almost any soil, but deep loams are necessary for heavy yields of the long varieties. When well grown the roots give immense yields of very valuable food for stock. Plant early in the spring in drills two to three feet apart and cover the

MAMMOTH LONG RED—The roots of this variety grow to a larger size than those of the other sorts. They are well formed, with flesh of a blood-red color. Very nutritious. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.50.

GOLDEN TANKARD—The most nutritious variety. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.50.

seed about 1½ inches. Cultivate frequently. When about three inches high begin thinning and continue at intervals until the roots stand 8 inches apart in the rows. Use a packet to 25 feet of drill; an ounce to 100 feet; 6 to 8 pounds per acre.

GIANT HALF SUGAR MANGEL—This is a hybrid, or cross between the Mammoth Long Red and Sugar Beet, and in feeding value is far superior to either. As heavy a cropper as the mangels, sweeter and much relished by cattle and hogs. Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 50c, postpaid; by freight or express, lb., 40c; 10 lbs., \$3.50.



Mammoth Long Red—Mangel

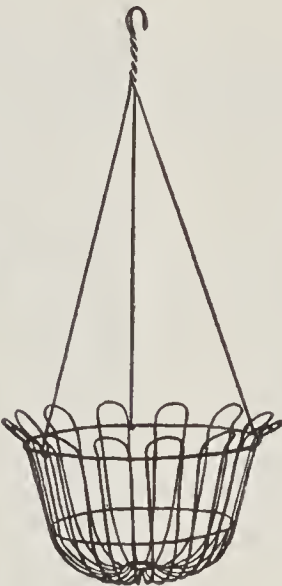
Perfection Brand Supplies

WIRE
HANGING BASKETS

Made of heavy wire, painted green.

- 12 inch35c each
- 16 inch50c each

Dyed green, sheet moss for lining wire hanging baskets. 80c per pound. Requires half pound to the basket.



AZALEA POTS

2/3 height of standard pots

We carry this style in the 6-7-8-9 and 10-inch, same price as standard pots.



RICHMOND
PLANT TUBS

Are made of seasoned, selected Virginia White Cedar, are bound with electric welded wire hoops, three hoops to each. The tubs are nicely painted.
No. 6—Inside top diameter, 11-in. Bottom 8½ in. Depth, 10 in. Each..\$1.30
No. 4—Inside top diameter, 9 in. Bottom, 7 in. Depth, 9 in. Each.... 1.00

BAMBOO PLANT STAKES
Dyed Green

For staking Mums, Dahlias, etc.

Length	Diameter	Per Doz.	Per 100	Per 1,000
3 ft.	¼ to ½ in.	12c	\$.90	\$6.50
4 ft.	¼ to ½ in.	15c	.95	7.50
5 ft.	¼ to ½ in.	20c	1.10	9.00

We carry in stock a complete line of BEE SUPPLIES and issue a separate catalog covering this, which we will be glad to mail on request.

A SIMPLE WHITEWASH
FORMULA

To 2 gallons of water add 2 lbs. common salt. When salt is dissolved add slowly 10 pounds of Hydrated Lime, with constant stirring. Allow the mixture to stand several days before using. When ready to use add water to the mixture until proper brush consistency is obtained and apply with ordinary whitewash brush or spray pump. One ounce of alum added to one gallon of the whitewash will prevent it rubbing off. We offer Hydrated Lime in 10-lb. bags for 20c; 40-lb. bags, 45c.

FLOWER POTS AND SAUCERS

Best grade of red pots. Special prices to Florists using large quantities.

POTS AND SAUCERS CANNOT BE MAILED

Charge will be made for packing at 35c for orders amounting to \$3.00 or less. On larger orders add 10 per cent to amount of order. This barely covers the cost. We pack carefully but will not be responsible for breakage.

	Dozen	Per 100	Per 1000
2 in. diameter	20c	\$1.30	\$11.00
2½ in. diameter	30c	1.70	14.00
3 in. diameter	35c	2.25	20.00
4 in. diameter	50c	3.25	30.60

	Each	Dozen	Per 100
5 inches in diameter.....	10c	\$.90	\$ 6.50
6 inches in diameter.....	12c	1.30	9.00
7 inches in diameter.....	20c	2.00	15.00
8 inches in diameter.....	25c	2.50	20.00
9 inches in diameter.....	35c	4.00	
10 inches in diameter.....	50c	5.50	
12 inches in diameter.....	85c	9.50	

SAUCERS

	Each	Dozen	Per 100
5 inches in diameter.....	4c	\$.40	\$ 3.00
6 inches in diameter.....	5c	.55	4.25
7 inches in diameter.....	7c	.75	5.75
8 inches in diameter.....	10c	1.10	8.00
9 inches in diameter.....	15c	1.50	
10 inches in diameter.....	20c	2.00	
12 inches in diameter.....	30c	3.00	

BIRD NEPONSET BLACK PAPER
FLOWER POTS

Every grower of plants, large or small, can cut his growing costs by using Paper Flower Pots.

Size	Per 100	Per 1,000
3 in.	\$.90	\$ 8.00
3½ in.	1.15	10.00
4 in.	1.50	13.00
5 in.	2.00	19.00
6 in.	2.80	26.00

BIRD EARTH BANDS

Crops whose value depends on how quickly they can be gotten to market are sure to be two to three weeks ahead when plants are started under glass. The use of Earth Bands makes it much easier to handle and transplant to the open field. Earth Bands also act as cutworm guards for the tender plants when they are in the open field.

Size	Per 100	Per 1,000
3x3x3	50c	\$3.75
4x4x3	65c	5.00

PLANT LABELS

Made From Port Orford Cedar

For trees, pots and gardens.

	Per 100	Per 1000
Tree Labels, Copper Wired, 3½ in.....	30c	\$2.25
Pot Labels, 11/16 x 4 in.....	25c	1.90
Pot Labels, 11/16 x 5 in.....	30c	2.25
Garden Labels, 1 in. x 10 in.....	60c	5.00

ETHYLENE CHLORYDRIN

Treating potatoes with Ethylene Chlorydrin causes spring grown Irish potatoes to sprout quicker when planted in midsummer. This quick new method has the effect of waking the potato or bringing it out of the rest period. ½-pt. in 2 gallons of water treats 2-bu. of potatoes.

		Postpaid
½-pt. bottles	\$.50	\$.65
1-pint bottles	1.00	1.25
1-quart bottles	2.00	2.30

Perfection Brand Supplies (Continued)

TREE WOUND PLANT

Antiseptic Tree Wound Paint will stop bleeding and prevent infection of pruned or damaged portions of tree. Very adherent and lasting.

Half pint can40c each
Pint cans70c each

Postage Extra

VERDOL

Summer Spray Oil

Oil sprays are being used to an increasing extent for the control of certain insects on evergreens. The pests that are becoming most troublesome in evergreen plantings, are red spider and pine leaf scale. Verdol has proved highly effective at 1% concentration for red spider control. At this strength it may be used at any time during the summer. Half pint jars, 20c each; pints, 35c each. Ask for quantity prices.

DENDROL

Dendrol Dormant Spray is a carefully refined, highly specialized soluble (miscible) oil for the specific purpose of killing insects attacking trees and shrubs. Dendrol is easy to use. It pours readily in any weather, mixes easily with any water, disperses freely to form a stable, milk white emulsion of uniform density, and has high covering power. Especially recommended as a dormant spray for San Jose and Oyster Shells scale. 1 gallon cans, \$1.15. Ask for quantity prices.

SULPHATE OF IRON

A remedy for weeds on lawns, kills dandelion, crab grass and chick weed. Dissolve 2 lbs. Iron Sulphate in 2 gals. water. Spray this over 100 square feet grass surface. Put on three applications of above amount, usually about two weeks apart. Mow the grass just before each application. Leaves the grass practically uninjured. Do not use on clover.

1 lb., 10c; 5 lbs., 45c; 10 lbs., 80c.

TRI-GEN

COMBINED SPRAY TREATMENT

Fungicide—Insecticide—Plant Stimulant
Complete Protection Against Plant Insects
and Diseases

In the past, Mildew and Black Spot have been most difficult to combat. However, these diseases are now easily controlled with the Tri-ogen Spray Treatment, which gives complete protection against all diseases and insect pests. It is easily applied and also acts as a plant stimulant—producing vigor in growth with resultant luxurious blooms, heretofore considered impossible. The Tri-ogen Spray Treatment applied weekly, from early season until late frost, makes it possible for the amateur to achieve the success, in many cases, comparable to the professional grower.

TRI-GEN was officially adopted for the exclusive protection of the Garden of 6000 Roses, at the Century of Progress, Chicago World's Fair.

PRICES:

- A. Small Kit (makes 16 quarts).....\$ 1.50
- B. Medium Kit (makes 64 quarts)..... 4.00
- C. Large Kit (makes 32 gallons)..... 6.00
- D. Estate Kit (makes 128 gallons)..... 20.00

DOG SKAT



Keeps dogs, cats and other animals away from trees, evergreens, roses, shrubbery, etc. Tube releases vapor offensive to animals, but not noticeable to humans. Large tube, 30c each; small tube, 15c.

Don't let bugs or plant lice eat up either the flower or vegetable plants you have started. Spray with Black Leaf 40 for plant lice, and with Bordeaux Mixture for rust, blight or fungus. We have all kinds of sprayers and remedies.

Insecticides and Fungicides



A scientific aphicide, perfected by Rose specialists, that quickly rids your plants of aphis, the destructive tiny green or pink soft-bodied insects, commonly called plant lice, found on the tender branches and foliage—weakening the plant and carrying disease.

APHISTROGEN also refreshes and invigorates the foliage. APHISTROGEN, while primarily perfected for aphis on Roses, is just as effective when used on other plants, either outdoors or in the house. APHISTROGEN will not turn the foliage yellow. It is invisible and non-poisonous, containing no nicotine sulphate. A complete spray. Simply mix with sixty times its volume of water.

When used alternately with Fungtrogen, the results are especially effective.

Prices: 2 ozs., 50c; ½ lb., \$1.25; 1 lb., \$2.25.



Spring Ground Dressing and Soil Stabilizer

A remarkable plant food, soil stabilizer and ground dressing for your roses. Fero-gen should be cultivated into your rose beds in the spring and early summer. It supplies vital chemical elements and stimulates to vigorous root action and strong growth. In convenient semi-powdered form. Fero-gen reinforces stable manure. 1 lb., 75c; 2 lbs., \$1.25; 5 lbs., \$2.75.



Conquers Mildew and Black Spot. A highly concentrated fungicide invisible on the foliage and blooms. Fungtrogen is the most effective preventive and remedy for Mildew, Black Spot and other fungoid diseases of Roses and other plants. Fungtrogen is a complete spray, soluble in water. ready to use. Half pint cans, 85c; pints, \$1.25; quarts, \$2.00.

An ounce of prevention is worth a pound of cure. Spray your trees and crops.

All prices subject to market changes.



A highly effective insecticide for leaf-eating insects, including caterpillars, slug worms, Japanese Beetle, etc., and has definite fungicidal value for blackspot on roses. An effective destroyer of leaf tier on Chrysanthemums grown under glass, etc.

Use INSECTROGEN alternately, as a companion spray, with the famous fungicide Fungtrogen. This results in unusually fine foliage and blooms heretofore unattainable as to color, form and general beauty. A complete spray—only water is required. Makes sixty times its volume as a spray.

Prices: 4 oz., 65c; ½ pint, \$1.10; pint, \$1.85.

Insecticides and Fungicides

(CONTINUED)

Slugs, snails and sowbugs become active during wet spells. Get busy right away with an approved poison bait. The thinner the material is scattered the more effective.

TAKE THE SPECULATION OUT OF SPRAYING

Prices Subject to Change

Write for Quantity Prices

Acme Garden Guard

A garden insecticide and fungicide for use as a dust. No water, no mixing, no muss.

For use on:
Cabbage, cauliflower, tomato plants, elon vines, currants and gooseberries and other vegetables, flowers and shrubs of many kinds.

Prices: 1-lb. sifter carton, 25c; 5 lbs., 70c.



Acme All Round Spray

The latest improvement in the insecticide field; one product which will combat blight and fungous diseases, control sucking insects and destroy chewing insects in one application. Safe to use on almost all fruits, vegetables, flowers and shrubs. Write for descriptive circular. ¼-lb. pkg., 40c.



Acme Paris Green

A rich, emerald color and of fine fluffy physical character. Containing 55½ arsenious oxide, it will give quickest control where extreme measures are necessary.

For use on:
Potato, cotton, tobacco, also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.

Prices: ¼-lb., 20c; 1 lb., 50c; 5 lbs., \$2.40.



Acme Dusting Sulphur M.S.R.

For mildew, black spot on roses and other plant diseases. 3-lb. package 45c.

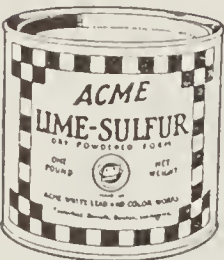
Acme Lime Sulfur

A standard 33° Baume lime and sulphur converted into a dry powder, but having all the effectiveness of the liquid product when dissolved in water.

For use on:

Dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite.

Prices: 1 lb., 35c; 5 lbs., \$1.50; 10 lbs., \$2.50.



Acme Two-Way Spray

A balanced insecticide and fungicide containing 14% arsenate of lead and 83% Bordeaux Mixture. Two results with one application.

Use wet or dry on:

Apple, sour cherry, currant, and gooseberry, grape, pear, plum, strawberry, pecan, bean, beet, cucumber, pepper, potato, tomato and many other fruits and vegetables.

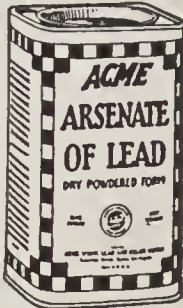
Prices: ½ lb., 25c; 1 lb., 40c; 4 lbs., \$1.40.



Acme Arsenate of Lead

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes and tobacco. Can be used as dust or spray.

Prices: ½ lb., 20c; 1 lb., 35c; 4 lbs., \$1.00.



Acme Bordeaux Mixture

Prevents large losses caused by blight, rot, mildew, scab, anthracnose and certain other fungous diseases. It stimulates plant growth and greatly increases the harvests. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture.

Price: 1 lb., 35c; 4 lbs., 90c.



Acme Spray Soap

A (fish oil) soap effective in destroying many sucking insects and lice on plants, trees, ferns, etc. Also used extensively with cylinder oils in making oil emulsions to reduce the surface tension.

Prices: 1 lb., 35c; 5 lbs., \$1.50.

Spray peaches, plums and nectarines with dry lime sulphur in December and February. This will prevent curly-leaf and other fungus.



The "Acme Spraying Guide" Will Be Sent Upon Request.

ACME NICOTINE POULTRY DELOUSER

"Paint the Perches"—Controls Chicken Lice

For the small expense involved, few things will pay greater dividends for the flock owner than completely freeing his chickens and poultry from lice with Acme Nicotine Poultry Delouser. A proven product. The nicotine fumes do the killing. Paint the perches—simple and easy to apply. No handling of the birds.

2-oz. tubes	\$.35 each
5-oz. tubes .....	.85 each
Pint cans	2.00 each
Quart cans	3.00 each

Pint cans will treat 300 to 400 running feet of roosts.

HAMMOND'S SLUG SHOT

SLUG SHOT—Slug Shot, used from ocean to ocean. A light composite, fine powder, easily distributed either by duster, bellows or in water by spraying. Thoroughly reliable in killing currant worms, chicken lice, slugs, sow bugs, bugs on cantaloupes, cucumbers, etc., and it is strongly impregnated with fungicides. Packed in cartons of 1 lb. each, with perforated top to dust out. 25c each; 5-lb. pkg. 85c.



Insecticides and Fungicides, Cont.

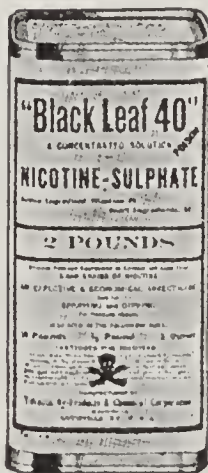
HAMMOND'S GRAPE AND ROSE DUST

Prevents mildew and black spot. This ideal dusting fungicide is easy and safe to use. Green in color—not unsightly. 1 lb. pkg. 35c; 5 lb. pkg. \$1.25.

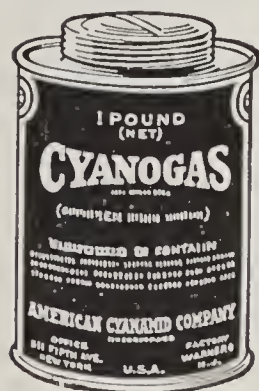


TOBACCO DUST—For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For insects on plants, apply with powder-duster or bellows; for worms or grubs in the soil, apply liberally to the surface and rake or strew thickly in drills before planting. Price, lb., 10c; 100 lbs., \$5.00.

BLACK LEAF 40—The insecticide so highly recommended by Experimental Stations. Destroys aphids (plant lice), thrips, leaf-hoppers on all trees, bush and vine fruits, vegetable, field crops, flowers and shrubs, without injury to foliage. You cannot go wrong by ordering Black Leaf 40 for sucking insects. Price, oz. (makes six gallons spray), 35c; 5-oz. pkg., \$1.00; 2 lbs., \$3.25.



CYANOGAS DUST — Calcium Cyanide is now well established with rapidly increasing demand. It is the most remarkable insecticide developed in many years. It controls greenhouse insects of all kinds; ants, chinch bugs, fleas, aphids, bed bugs and many others. Rats, moles, woodchucks, prairie dogs, ground squirrels, etc. Cyanogas A Dust is a powder and when pumped in a rat hole releases a deadly gas. The dust particles travel underground, releasing the gas as they go and the rat has no chance as the gas reaches wherever he runs. Price: 1/2-lb. pkg., 45c; 1-lb. pkg., 75c; 5 pkgs. for \$3.60.



TREE TANGLEFOOT — A perfect safeguard for trees and vineyards against Gypsy, Brown Tail, and Tussock Moth Caterpillars, Canker Worms, Cut Worms and Ants, and other creeping insects. It will remain sticky about three months fully exposed to the weather. One pound makes 12 to 15 lineal feet of band. On matured fruit trees and all shade trees is applied directly to tree trunks; on young fruit trees over strips of Manila Paper. 5-oz. pkg., 25c; 1-lb. pkg., 50c; 5-lb. pkg., \$2.25 each.



\$1000 GUARANTEED ROACH KILLER

\$1,000 Guaranteed Roach Killer is guaranteed to kill roaches and water bugs. It is prepared so that roaches will like it, which insures their eating it. It is absolutely sure to kill the roaches that eat it, yet it acts so slowly that the roaches linger on several days before dying, during which time they carry to their young such powder as may adhere to their bodies. 3-oz. cans, 35c; 7-oz. cans, 65c; 16-oz. cans, \$1.25.



Pyrox

For leaf-eating insects and plant diseases Pyrox is a combined insecticide and fungicide that kills bugs, prevents blight and rots, and improves the foliage, thus increasing the yield and improving the quality. Use it for all garden vegetables, potatoes, fruits and rose bushes. It sticks like paint, so frequent sprayings are not necessary. A pound makes 4 to 5 gallons; 10 pounds will spray an acre of potatoes. Not prepaid, lb., 50c; 5 lbs., \$1.75; 10-lb pkgs., \$3.00. Cannot be mailed.

KAYSO—Prepared Casein, a spreader and adhesive and for use in connection with Lime Sulphur, Bordeaux and Arsenate of Lead. Simplifies spraying, makes possible the perfect coating of every part of the tree and leaves. Remember that Kayso is not only a spreader and binder; it makes the poison stick and resistant to washing effect of rains; also saves material. 2-lb. pkg. is sufficient for 100 gallons of spray. 2-lb. pkg., 45c.

RAT NIP

Kills Rats Every Time

Rat Nip has no parallel for successfully destroying rats. It has an attraction for rats that they cannot resist. The odor and composition of Rat Nip is such that rats will scent it far away and when found they eat it ravenously 2 1/2-oz. pkg., 35c.

KRO—Kills Rats Only

Ready mixed—contains most attractive rat bait known, mixed with red squill powder, oven-dried under the special "Connable Process". 6-oz. pkg., 35c, postpaid.

B-K—A Disinfectant, Deodorant, Sterilizer

B-K is ten times more effective in destruction of germs and bacteria than undiluted carbolic acid. Contains no poison, acid, oil nor anything harmful to people, animals or food products. B-K is as clear and clean as water. It destroys the germs that cause odors and decay—helps to keep utensils and products clean and sweet. B-K is cheap to use, is concentrated—you add water to use. Costs 1/2c to 2c per gallon as used. Prevents poultry diseases, such as Roup, Canker and White Diarrhea. 4 ozs., 30c; pint, 50c; quart, 90c; gallon, \$2.00; 5 gallons, \$8.50.

B-K POWDER—9 1/3 oz. pkg. makes 1 gallon, 75c each; 28 oz. makes 3 gallons, \$1.50 each.

PRICES

1 oz. Bottle	.....	\$ .35
6 oz. Bottle	.....	1.00
1 Pint Bottle	.....	2.00
1 Gal. Tin	.....	12.00

1. Highly Effective—Insects are divided roughly into two classes—those that suck sap from leaves and stems, and those that chew the foliage. A different insecticide used to be necessary for each class. Now you can kill both kinds with one spray—EVER GREEN.
2. Safe to Use—EVER GREEN is absolutely non-poisonous to humans, animals and birds. No danger from eating vegetables or fruits that have been sprayed with EVER GREEN.
3. Non-Injurious—EVER GREEN may be sprayed on the tenderest plants or blossoms without fear of burning or discoloration. Will not destroy the fertility of the soil.
4. Economical—Because highly concentrated—a little goes a long way. 1-oz. bottle makes 6 gallons of spray for plant lice.
5. Now requires no soap or other spreader. Simply mix with water and spray.



MAILABLE—Being non-poisonous EVER GREEN can be sent through the mails.

Use **EVER GREEN** to
NON-POISONOUS INSECTICIDE
PROTECT YOUR GARDEN

POMO-GREEN (with Nicotine)



Controls diseases, leaf-eating insects and Aphis, Rose Aphis, Nasturtium and Sweet Pea Aphis, Japanese Beetle, Leaf Roller, Web Worm, Tent Caterpillar, Flea Beetle, White Fly, Rose Midge, Red Spider, Mealy Bug, Rose Black Spot, Rose Mildew, Rose Canker, Dahlia Mildew, Zinnia Mildew, Hollyhock Rust, Snapdragon Rust, and many others.

One pound cans 75c each; five pound can, \$3.00 each.

HAMMOND'S WEED KILLER

Destroys weeds, poison ivy and all vegetation. Highly concentrated, stands dilution with 40 parts of water.

Paths, roadways, borders, gutters, etc., can be kept free from wild grass, vines, etc., by the use of Hammond's Weed Killer. It can be used to clean up areas which have become overgrown. A few rains wash the ground clean and it is then ready for cultivation.

Quart cans\$.50 each
1 gallon cans 1.25 each

Kill The Peach Tree Borer by Using Santochlor

The borer feeds actively in the fall, spring and summer months, and lies dormant in the winter. It attacks the soft inner bark usually just beneath the ground and sometimes along the larger roots. The presence of these pests is indicated by masses of gum mixed with brown frass or

"sawdust" exuding fom the injured trunk. One treatment per year, preferably in the fall, will usually be sufficient protection. Santochlor penetrates the burrows of the borers. It is fatal to insects but harmless to man or beast unless taken internally. 1-lb. pkg., 50c; 5-lb. pkg., \$1.90; 10-lb. pkg., \$3.20; 25-lb. pkg., \$6.25, postage extra.

Two Great Pest Controls

That Rid Your Home of Ants and Garden Pests—Quickly, Safely, and Surely!

Antrol

1. ANTROL—For sweet-eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any sized house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.



Two Types of Antrol Sets

REGULAR consists of 4 water and dirt-proof glass containers and one 4 ounce bottle of Antrol Syrup, enough for two complete fillings. Price 75c per set.

READY-FILLED consists of 4 special glass "feeders" filled with regular Antrol Syrup. Price 40c per set.

Any number of Antrol Ready-filled Feeders may be purchased separately at 15c each.

ANTROL SYRUP for refilling 4 oz. bottle, 35c each.

ANTROL SYRUP, pint bottles, 85c each.

NOTE—Enough containers and syrup should be purchased to place one container every 15 feet around the house and along ant "trails" in the garden.

Snarol



2. SNAROL—For snails, cutworms, slugs, grasshoppers, sow-bugs, earwigs and other garden pests.

This is a ready prepared meal that you simply broadcast about the garden on the ground under the vegetables. The pests eat this meal and are quickly destroyed. Rains and sprinkling do not lessen the efficiency of Snarol.

Also SNAROL is non-injurious to vegetation.

Indorsed by gardeners and nurserymen everywhere for best results.

PRICES	
1½-lb. package	35c
4-lb. package	85c

Get in plenty of insect ammunition.
You will need it early and often.

We Specialize in Seed Disinfection



NEW IMPROVED CERESAN

A low cost disinfectant dust for Wheat, Oats and Barley. Controls certain seed-borne diseases. Is easily applied. 1 lb. pkg., 75c; 3 lb. pkg., \$3.00.

2% CERESAN

A dust disinfectant for Cotton, Millet, Peas and Sorghum. 1 lb. pkg., 75c; 5 lb. pkg., \$3.00; 25 lb. pkg., \$12.50.

Booklets on Seed Disfectant mailed on request.

SEMESAN, JR.

for Field and Sweet Seed Corn

The organic mercury dust disinfectant for the control of Diplodia, Gibberella and Basisporium root rots; also for the prevention of seed rotting of early planted corn. Is quickly and easily applied, is harmless to the seed and does not appreciably slow up the rate of planter drop or prevent accurate planting. Prices—4 oz., 50c; 1 lb., \$1.50; 5 lbs., \$7.00.

SEMESAN

for Vegetable and Flower Seeds and Bulbs

The chlorophenol mercury disinfectant for combating many diseases carried on seeds, bulbs, corms, roots, or tubers of flower, vegetable and nursery crops. Reduces seed rotting and damping-off of seedlings. Applied either as a liquid or as a dust. Used as a liquid treatment for controlling "Brown Patch" of lawn and golf green grasses. Prices: 2 oz. 50c; 1 lb., \$2.75.

SEMESAN BEL

for White Seed Potatoes

The organic mercury dip disinfectant for the control of scab and Rhizoctonia carried on seed white potatoes. Quick, easy dip treatment that eliminates labor and loss of time required by 1½ or 2-hour soak treatments. One pound treats from 60 to 80 bushels of seed potatoes at the cost of 1½ to 3 cents per bushel. Prices: 4 oz., 50c; 1 lb., \$1.75; 5 lbs., \$8.00.

Supply Department



Time Tested Remedies
For Use on Dairy Farms

KOW KARE

It has many uses on the dairy farm, its supply should never be permitted to get low. It is recommended for scouring, loss of appetite, bunches; especially favorable in cases of possible or threatened abortion. Widely recommended for barrenness, for retained afterbirth, for milk fever. There is no better medicine for cows. A handy book, "The Home Cow Doctor" mailed on application. Kow Kare, large size pkg., \$1.25. Medium size, 65c.



GRANGE GARGET REMEDY

For that serious disorder peculiar to cows—Garget is favorably known to every dairymen. Price per can, 65c; enough to treat 15 cases.

BAG BALM



For all diseases of udders and teats, such as caked bag, sore teats, bunches, chapping, cuts or inflamed parts, you can use this remedy with perfect safety; positive results in every case. The use of Bag Balm will make decidedly easier milkers of your herd. Price 60c per can.

BAG BALM DILATORS

Scientifically shaped to the correct normal position of the delicate tissues of the muscles of the teat canal. Non-irritating. Fluted shaft retains correct amount of Bag Balm to promote rapid healing. 25 Dilators packed in Bag Balm for 60c.



CONKEY'S KAFMEAL

With Y-O (Yeast and Cod Liver Oil)

It is simply good dairy management to substitute Conkey's Kafmeal for the much more valuable—per liquid pound—whole milk or skim milk. Generally speaking, a calf should be fed a quantity of milk or Conkey's Kafmeal Gruel, equal to 10% of its body weight. This amount will run into a considerable sum of money if whole milk is used. Naturally the quantity increases as the calf grows. The feeding of Conkey's Kafmeal enables you to feed the calf for only a few cents per day. 25-lb. bags, \$1.30 each; 100 lbs. \$5.00.

BEE SUPPLIES

We carry in stock a first-class line of Bee Supplies and issue a separate catalogue. If interested in Bee Supplies write us and catalogue will be mailed promptly.

MORTON'S COMPLETE MEAT CURING SERVICE MORTON'S SUGAR-CURE

The Triple Action Smoke-Salt



Morton's Smoke-Salt is a marvelously balanced blend of the highest grade meat Salt with a sugar-cure famous for its quality, and refined, condensed wood smoke. No smoke house is needed. All the curative and flavoring properties of smoke are in the Salt. It is the Triple Action Cure—Salting, sugar-curing, and putting the appetizing flavor of wood smoke into the meat—all in one operation. This famous Smoke-Salt has been the national favorite for curing hams and bacon for over ten years and more farmers use it than any other brand.

2-lb., pkg., 25c; 10-lb. pkg., 90c.

MORTON'S MEAT CURING THERMOMETER

This handy patented instrument is a combination meat curing and weather thermometer. It helps take the guesswork out of scalding, chilling, and curing. When your water is at exactly the right temperature the hair slips easily and makes scraping a quick job. This thermometer is designed and especially marked for testing your meat to see that it is properly chilled before starting the cure.

Price Each\$1.00

MORTON'S TENDER-QUICK

This amazing new meat cure does just what its name implies—it cures fast—it makes meat tender—and will make it easy for you to cure any kind of meat you wish.

Tender-Quick is the only product of its kind on the market. It consists of the very highest grade meat Salt with a combination of super quality curing ingredients accurately proportioned and perfectly blended. It brings out the full richness of the hidden natural flavors in all kinds of meat. The cured meat will slice firm, it will be tender, and will have unusually fine flavor.

When used in combination with Smoke-Salt, Tender-Quick makes a perfect pumping pickle for pumping hams and shoulders. For beef, veal, mutton, lamb, fish, poultry, wild game, spare ribs, backbone, etc. Tender-Quick is used alone, either for the dry cure or the sweet pickle cure.

2½ pound pkg., 50c; 10 pound pkg., \$2.00

MORTON'S MEAT PUMP

Everyone who cures meat should have this meat pump. It is the most important instrument ever offered to farmers to help make meat curing easier, quicker, and safer. This pump will pay for itself many times over, yet it is offered at a price so low that no farmer who cures meat can afford to be without it.

Morton's meat pump is used with Tender-Quick. A pumping pickle is made by dissolving Tender-Quick in water and this Tender-Quick pickle is injected into the hams and shoulders at the joints and along the bone, also for pumping the bone area in beef, mutton, and other kinds of meat.

When this pump is used the meat starts curing from the inside outward at the same time the regular cure starts inward. Price Each\$1.50

MORTON'S SAUSAGE SEASONING



Now in one convenient package you get all of the seasoning ingredients needed to make your sausage so that it is always good and always the same. Morton's Sausage Seasoning is a complete mixture. It is all ready to use, nothing to add or mix. Blended in one handy package are all of the salt, spices, sage, peppers, and other seasoning ingredients in exactly the right proportions to make the finest, most delicious sausage you ever tasted. With this famous seasoning there is

no guesswork—no disappointments. 10 oz., pkg., enough for 30 lbs. of Sausage, 25c each.

ASK FOR MORTON'S 64-page book on Meat Curing.

Supply Department (Cont.)



PERFECTION DOG FOOD

A balanced Meat-Cereal food for puppies and grown dogs. Perfection dog food served alone, that is, with water or milk, is a well-balanced meal in itself.

5 lb. bag 50c; 10 lb. bag 75c; 25 lb. bag \$1.55; 100 lb. bag \$5.60.



CHAMPION DOG FOODS

Are Clean Enough for Human Consumption. Pure Cod Liver Oil is used in Champion Biscuits.

Champion Dog Biscuit is composed of clean, sweet meats—twenty-five per cent more than in any other dog food—and the choicest of cereals and ground grains; all perfectly blended in the proportion best suited to the needs of the dog. Being heavy with protein—the real essential basis of all dog foods—Champion Dog Biscuit is most nourishing. It is truly “The Balanced Ration” in every sense.

Champion Dog Biscuit is intended as a regular and steady diet. Being a balanced ration, it supplies food elements necessary to produce smooth, glossy coats, regular habits and general good condition. Champion Dog Biscuit builds bone and sinew, imparts strength and stamina.

Also Special Biscuits for puppies, and Kibbled Dog Food.



PERFECTION CUBES

The formula for Perfection Cubes is the same used for Perfection Meat Cereal, meat cereal and cod liver oil. The Cubes contain Vitamins A, B, D, E and G, all that are necessary for a well-balanced and nutritious food. In feeding these cubes it is necessary for a dog to chew them, thus stimulating salivary secretions and aiding digestion. The chewing also keeps the teeth clean and the gums in good condition. No mixing required. They are ready to serve.

5-lb. pkg., 50c; 10 lbs., 80c; 25 lbs., \$1.60.



KEN-L-RATION The Dog Food Supreme

Ken-L-Ration is clean, pure and wholesome as the food used on your own table and is composed of fresh, lean meat, the best grade of whole cereals and cod liver oil tested for its potency. 1-lb. cans, 10c; per case, 48 cans, \$4.25.

PULVEX

A Lice and Flea Powder

Some small animal owners, particularly those owning dogs, cats and poultry, prefer to dust them to get rid of lice and fleas rather than wash or dip them. In such cases we recommend Pulvex, a non-poisonous, odorless product, which is sure death to lice and fleas. Price: 2-oz. pkg., sifter top, 50c each; 12-oz. pkg., \$1.25 each.

PERFECTION FLEA POWDER

Sure death to fleas on dogs and cats. Non-poisonous, odorless, non-irritant. 3-oz. package with sifter top, 35c each, postpaid.

RED HEART DOG FOOD

A diversified diet for your dog.

Red Heart Dog Food is made and packed under U. S. Government inspection. The contents of each can are fit for human food, so pure are its ingredients.

DIET A—Beef Flavored. It provides everything your dog needs for real nourishment. Contains beef by-products, beef, choice bran, carrots, bone meal and cod liver oil. This is the basic balanced Red Heart diet for your dog's health.

DIET B—Fish Flavored. To the basic diet is added the proper amount of delicious, boneless fish and so gives it a pleasing fish taste that appeals to dogs, as well as cats, foxes and other animals.

DIET C—Cheese Flavored. The correct proportion of tasty cheese of excellent quality added to the basic diet gives this diet a new appetizing flavor and furnishes many beneficial minerals.

Feed the Red Heart Diets A, B and C in simple rotation. Your dog just won't get tired of them. Price per 1-lb. can 10c; per case, 48 cans, \$4.50.

CHAMPION DOG FOODS

	Per lb.	25 lbs.	100 lbs.
Puppy Biscuit	\$0.15	\$2.55	\$9.25
Puppy Meal .....	.15	2.55	9.25
Kibbled Dog Food .....	.15	2.55	9.25
Dog Biscuit .....	.15	2.55	9.25

PARD

A meat food product made by Swift & Co. Ready to serve ration made especially for dogs and cats of all breeds and ages by specialists in animal nutrition. 1-lb. cans, 10c; per case, 48 cans, \$4.45, f. o. b. cars Tulsa.

SUPERCEDAR KENNEL BEDDING

Keeps your dog's bed free of fleas. A pleasant deodorant and natural enemy of fleas, lice, mites and moths. Supercedar Kennel Bedding is made from Tennessee Aromatic Red Cedar, the heart wood of which contains the wonderful oil of cedar. Supercedar Kennel Bedding is produced 90% or more of red heart wood, scientifically dried, and none of the valuable oil has been removed. Price, 5-lb. bag, 50c; 25-lb. bag, \$1.25; 50-lb. bag, \$2.25.

SERGEANT'S DOG REMEDIES

Have been before the public for over half a century. Dog owners can rely upon Sergeant's Remedies at all times to be safe and effective and the last word in scientific treatment of canine ills. Sergeant's Book on Dogs mailed on request.

Postpaid

Mange Remedy	65c
Condition Pills	60c
Sure Shot Capsules. For roundworms, pinworms and hookworms	60c
Puppy Worm Capsules	60c
Tapeworm Remedy	60c
Arsenic and Iron Pills. A blood purifier. For treating blood and skin diseases.....	60c
Canker Wash. For treating ear canker.....	60c
Well Mouth. For treating sore mouth and black tongue	60c
Pepsin Tablets. For treating indigestion.....	60c
Diarrhea Remedy	60c
Cough Medicine	60c
Rheumatic Pills	60c
Dog Rub. A splendid liniment for lameness, sore muscles and swollen limbs.....	60c
Eye Wash	60c
Constipation Capsules	60c
Run Fit Medicine	\$2.00
Carbolic Tar Soap	25c
Skip-Flea Powder	25c

Sirs:

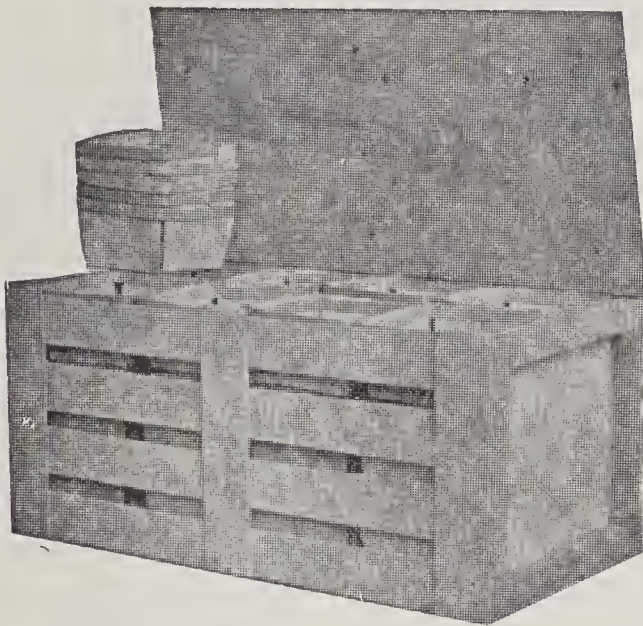
Enclosed find 35c in stamps for which please send me one can of Perfection Flea and Lice Powder. I have used this powder and find it more satisfactory than any other that I have used.

Yours respectfully,

KATIE McBRIDE.

Oklahoma

STRAWBERRY BOXES AND CRATES

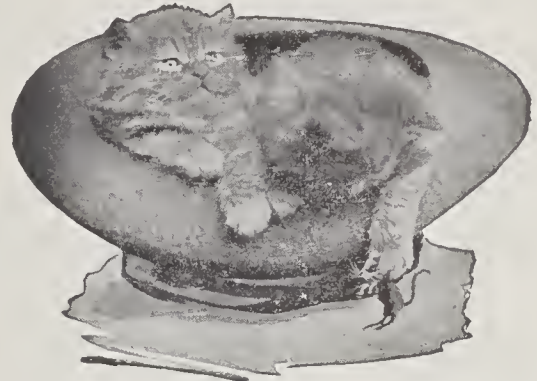


AMERICAN STYLE

	Per 100	Per 1000
Quart Boxes	\$.85	\$7.00
Pint Boxes .....	.80	
Quart Crates, each, 25c	17.00	
Pint Crates, each 25c.....	17.00	

If interested in quantities ask for lowest market price.

CATNIP MICE



Cloth mouse filled with catnip. Cats and kittens frolic and cut up all kinds of antics when given a catnip mouse. It is a necessity for every family that keeps a cat or kitten. Very important that growing kittens have catnip. 15c each; \$1.95 per dozen.

Wheelbarrow Grass Seeders

ROYAL SEEDER

Have won for themselves first place among all kinds of grass seeders. They have demonstrated that they are the most accurate and economical machine for sowing Clover, Timothy, Alfalfa and other small seeds broadcast. They run easily, and sow evenly in windy weather. The quantity



of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder has a strong steel wheel 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire, is operated by a de-



vice that engages the wheel close to the hub. It is instantly thrown out of gear, and the amount of seed sown is quickly governed by changing a screw in the index. This seeder does not injure or bunch the seed, but evenly distributes it the full length of the hopper.

12 ft., Single Hopper for Alfalfa, Clovers, Millet, Timothy. Each.....	\$12.00
16 ft., Single Hopper for Alfalfa, Clovers, etc. Each.....	13.75
14 ft., Double Hopper for Blue Grass, Red Top, Orchard Grass, Alfalfa, Clovers, etc. Each.....	14.75



THE CYCLONE SEEDER—Sows

all kinds of grain and seeds perfectly—oats, cow peas, millet, etc.

Each, \$1.95, postpaid.

PEAT MOSS IN THE GARDEN

Peat Moss is Nature's answer to the gardener's two most perplexing problems—how to correct a defective soil, and how to provide a source of constant moisture supply.

Just as nature has provided for England the woolen industry, and for France, wine, so are Sweden and Germany favored as the source of the finest peat moss.

The less humid climate and the more severe winters, especially in Sweden, have favored the growth of the one particular species of sphagnum moss which is the purest, most absorbent and least decayed of all deposits of peat moss so far discovered.

To these natural advantages is added a superior method of processing, cleaning and preparing for the market, as in both of these countries the peat moss industry is recognized as a primary one.

The result is a clean, finely granulated product, fluffy, porous and highly absorbent that has no superior for changing a heavy soil into one that can be penetrated easily by plant growth, or for providing body and water-holding powers to light soils.

Gardeners who have never used peat moss will be surprised to discover its useful properties in the all-year-round garden program.

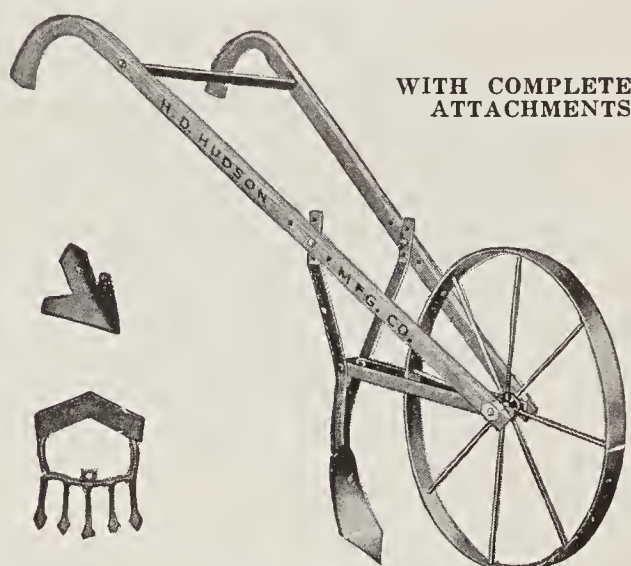
Soils which are not naturally good, because of too much sand or gravel, which lack life and vigor, or are stiff, hard clay, difficult to work, cold and uncongenial, can readily be corrected by the addition of generous quantities of granulated peat moss. It provides humus (without adding weed seed), promotes helpful bacterial action and creates an ideal friable, loose, porous soil. Hard-caked top crusts become a thing of the past, and tedious cultivation is no longer necessary.

Peat moss is harmless. It will not burn or injure the plants, regardless of the amount used; it is also odorless, pleasant to work with and when used as a mulch, adds to the neatness and attractiveness of the garden.

For lawns, for preparing the soil for garden beds, sowed flats, greenhouse benches, for rooting cuttings, as a summer or winter mulch peat moss is a ready and efficient aid, truly, Nature's gift to gardeners. Per bale of 6 cubic ft., \$1.75; large bale, 12 cubic feet, \$2.75 each.

Garden Implements

HUDSON GARDEN PLOWS



The high-wheel garden plow is a universal favorite with the truck gardener where the work is sufficient to justify separate machines for seeding and cultivating. It has all the equipment for plowing, hilling, raking and cultivating, either wide and shallow or narrow and deep. Wheel is 24-inch for easy traction. Equipment includes turning plow, combination hoe and cultivator and double-point shovel. Price, \$3.75 each.

HUDSON GLASS JAR SPRAYER



Container glass. Large diameter base prevents tipping. Large opening makes easy filling, emptying and filling. Curved cyphon tube permits use in almost vertical position even when nearly empty. Capacity 4½ ounces. Price, ea. 25c.

HUDSON JUNIOR SPRAYER



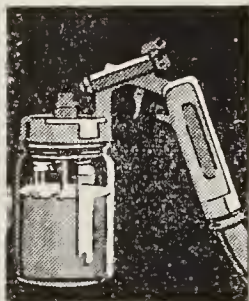
The Hudson Junior is a high-pressure sprayer for whitewash, water paints, insecticides, etc. Tank is riveted and soldered at all seams. Handle and top are malleable. Equipped with high-pressure spray hose, brass extension, automatic shut-off and angle nozzle. Various nozzle discs are furnished for various kinds of work. Price, brass tank, \$6.50; galvanized tank, \$4.50.

INSECT-O-GUN

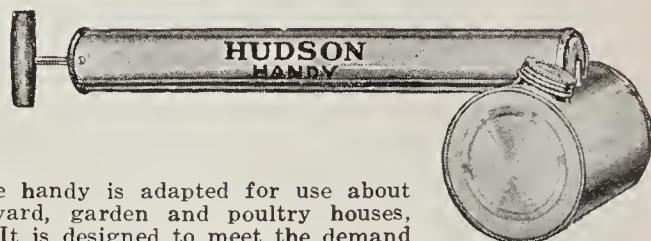
This inexpensive attachment . . . the Insect-O-Gun . . . which is highly endorsed by leading insecticide manufacturers, entirely eliminates hand pumping and heavy unwieldy apparatus which heretofore has been the only sure method of pest-relief.

Attached to your garden hose, the Insect-O-Gun ejects a penetrating wide-angle "fan" spray with tremendous velocity, reaching every insect in its path with telling results.

The Insect-O-Gun is strongly built of heavy, durable non-rusting die metal and will last a lifetime. Any standard pint mason jar can be used with the unit. It is boxed complete, including jar and full instructions, ready to attach to your garden hose for instant use. Price each (complete), \$3.75.



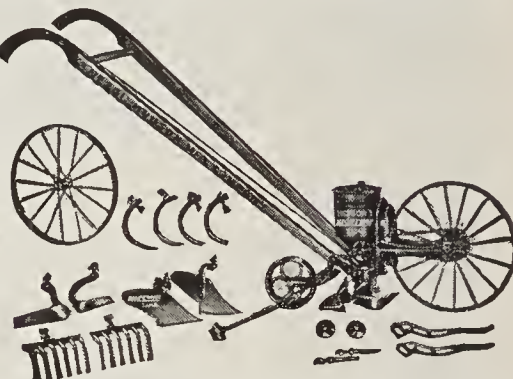
HUDSON HANDY SPRAYER



The handy is adapted for use about the yard, garden and poultry houses, etc. It is designed to meet the demand for a quart tin at a medium price. Carefully made of good material, tested and inspected. Price 45c each.

HUDSON SEEDER AND CULTIVATOR

As a seeder, this machine opens furrow, drops seed, closes furrow, packs earth and marks next row—all in one operation. By removing seeding parts, machine becomes double or single wheel cultivator, rake or plow.



Very accurate. Seed regulator entirely of brass, die-cut instead of cast or molded. This important feature makes the Hudson Seeder outstanding in operation and results obtained. Sows any seed from beans down to smallest garden variety.

Has brush force feed, guaranteed not to injure most delicate seed. Adjustable to sow in continuous rows or in hills from 4 to 24 inches apart. Seed flow is visible at all times. Handles are plow-handle type, adjustable to suit operator. Has 16-inch wheel, malleable iron frame. Hoes, shovels and plows are high-grade steel. Price \$15.50 each.

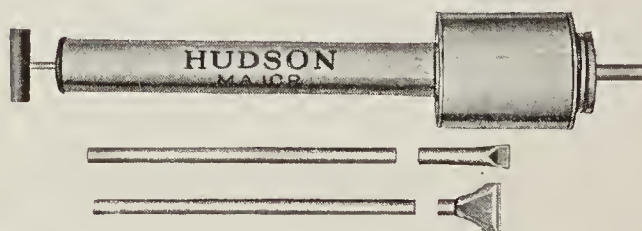
HUDSON PERFECTION SPRAYER



There is only one Perfection Sprayer—Hudson makes it. Special features include: All seams completely riveted and soldered; pump threads into top, enabling operator to remove entire assembly in one operation. Malleable winged top prevents breakage and loss of time in removing pump in case of rusting or sticking. Has adjustable shoulder strap. Tank holds 4 gallons. Discharge equipment includes 27 inches 5-ply

spray hose, 24-inch brass extension, automatic shut-off and variable disc nozzle for different classes of work. Price, galvanized tank, \$6.00; brass tank, \$8.00.

HUDSON MAJOR DUSTER



An efficient and powerful duster for all dry powder insecticides. Handles Paris Green, Arsenate of Lead, Cyanogas dust and similar poisons; powder reservoir 2¾x5 inches. Pump is 9 inches long. Special construction prevents clogging and keeps dust from backing up into pump compartment. Equipped as shown. Price, \$1.00 each.

Sprayers

It is necessary to be prepared to fight any and all kinds of insects, blight, fungus growths, blotch, bugs, and other destructive pests. This may be accomplished by possessing a sprayer capable of performing the work you find it necessary to do. We sell many dozen Standard spray pumps each season, and the demand for Compressed Air Sprayers is increasing each season.

SUNSHINE SPRAYERS

It is adapted for orchards, vineyards and truck gardens; for whitewashing poultry houses and dairy barns; spraying stock dips, etc. Its two-wheeled construction enables it to be used on hillsides or on uneven ground without danger of tipping. Pump is fitted with dasher type agitator driven by each stroke of the plunger. Valves are bronze balls mounted in brass cage, accessible without dismantling the pump. Cylinder is seamless brass. Tank is heavy gauge copper bearing galvanized steel; capacity, 12½ gallons. Discharge equipment consists of 5 feet of 3⁄8-inch, 5-ply hose, two feet of iron pipe extension and angle spray nozzle. Price each, \$15.00.



HUDSON BARREL PUMP

This pump will meet every requirement of a perpendicular barrel pump. It is powerful, light and durable, and will maintain a working pressure of 200 pounds. Has capacity for two lines of hose if desired.

Cylinder, seamless brass tubing, 1¾ inches in diameter, 7 inches long. Air chamber, high carbon steel 2 inches in diameter, 30 inches long. Valves, bronze balls, easily removed for cleaning. Agitator, swinging type, driven with each stroke of the handle. Discharge equipment, 12½ feet of ½-inch spray hose and ideal angle spray nozzle. No. 4-A Pump as above, price.....\$13.00



HUDSON SPRAY HOSE

Hudson Spray Hose is made especially for spraying purposes. The inner liner is of special composition not affected by the chemical action of the various spray solutions. 3⁄8-inch size, 5-ply hose, 20c per foot; 25 or more at 15c per foot.



HUDSON ADJUTANT DUSTER

The Adjutant is an improved type of Duster with wide range of usefulness. Compact enough for use in stores, offices, etc. Ample power and capacity for garden and field, in poultry house, etc. Price, each 60c.



HUDSON SIGNAL DUSTER

The Signal is a favorite for use about the home in war on roaches, ants and water bugs. Handles all insecticides in powder form very efficiently. Price, each 35c.

Poultry Supplies

TESTED THERMOMETERS

The best incubator or brooder is useless unless the thermometer used therein is accurate. Hundreds of hatches in incubators fail because of inferior thermometers. A large number of chickens are killed in brooders owing to defective or worthless thermometers. The thermometers listed herein are manufactured especially for us, and are thoroughly tested and seasoned before they are shipped.



Tycos Certified Incubator Thermometer

Engraved tube, every fifth line and figure stamped on the scale. Each one accompanied by maker's certificate of accuracy. Each, \$1.00.

Taylor Brothers Incubator Thermometers, 80c each; postpaid, 90c.
Taylor Brothers Brooder Thermometers, 65c each; postpaid, 75c.

We have a Poultry Expert in charge of our Poultry Service Department and we want you to feel free to consult him at any time on your poultry problems. He does Pullorum Blood-testing, Vaccinating, Worming, Caponizing, Tatooing, Culling and Mating.

Poultry Supplies (Cont.)



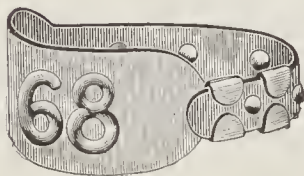
Just Paint it on the Roosts!

—Before the chickens perch. Only a small paint brush and a can of "Black Leaf 40" are needed. While chickens roost, fumes are slowly released and penetrate the feathers; killing lice. Eliminates individual handling of birds. Ask your dealer or write us. Tobacco By-Products & Chemical Corp., Inc., Louisville, Ky.

"Black Leaf 40"
Kills Poultry Lice

1 oz. Bottles	_____	\$.35
5 oz. Bottles	_____	1.00
1 lb. Bottles	_____	2.25
2 lb. Tins	_____	3.25
5 lb. Tins	_____	5.85
10 lb. Tins	_____	10.60

LEG BANDS



CHAMPION LEG BANDS—The oldest and most popular band on the market. The band is made in one piece in two sizes, adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of best quality

aluminum. Price, postpaid: 12 for 15c, 25 for 25c, 50 for 40c, 100 for 75c.

ASSORTED COLORED CELLULOID LEG BANDS—Dozen, 15c; 50 for 50c, 100 for 70c.

BANDETTES—The best colored Celluloid Leg Bands. Spring clip pattern. Neat and jointless appearance. Double numbers easy to read. 25c per dozen; \$1.50 per 100. Packed in boxes. State what size wanted when ordering.



DOUBLE NUMBER PIGEON BANDS—Same style as Economy Double Number. Dozen, 25c; 100, \$1.50, postpaid.

MASON JAR FOUNT

Very substantial pan with heavy rolled edge. We do not furnish the glass jars. Each, 10c; postpaid, 15c; dozen, 90c; dozen, postpaid, \$1.25.



GLASS PAN FOUNTAIN

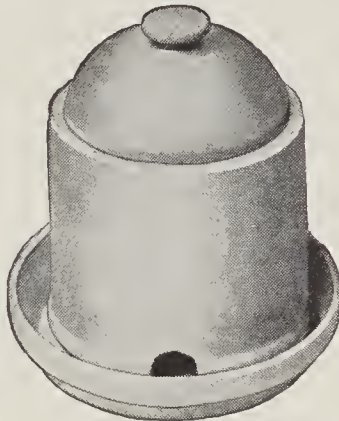
For Mason Jars

Drinking pan heavy molded glass with smooth edge. Mason Jar screws into metal clip and is held firmly in position when clip snaps over outer edge of pan. Jar and clip quickly detached from pan. Ideal for feeding medicated water or buttermilk to chicks. They can't get into the pan and drown. Jar not furnished.

No. B25—Each, 15c; 2 for 25c; 1 doz. \$1.25.

STANDARD GRIT AND SHELL BOX

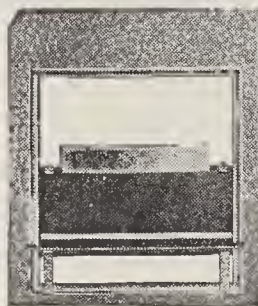
This grit and shell box has slanting front, inclined top and round bottom to trough. For large fowls we recommend the three-compartment hopper described above. Price, \$1.25. Shipping weight, 2 pounds each.



STONEWARE DRINKING FOUNTAINS

One gallon size, two openings, suitable for butter-milk or water. 40c each; ¼ gal., 20c each; ½ gal., 30c each.

RELIABLE TRAP NEST FRONT



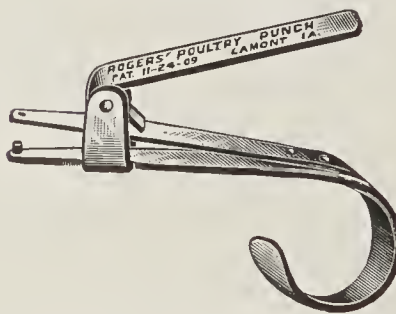
This is a trap nest that your hens will like. When the drop is down it permits a free circulation of air, and will eliminate much loss through hens dying of heat on the nest. It is positive and free in action and almost noiseless. There is nothing better at any price.

No. 415 Trap Nest Fronts 30c each; doz. \$3.25.

POISONED WHEAT

Sure death to rats, mice, gophers and moles. Put a little of the wheat in a box, pan or saucer in a convenient place where the rats, mice, etc., can find it; they will do the rest. 2-oz. pkg., 15c; 5-oz. pkg., 30c. Cannot be sent by mail.

MONEY-BACK POULTRY PUNCH



This illustration is two-thirds size of punch.

The only guaranteed chick marker on the market. It hangs handily when marking the chicks so that the operator can readily see what he is doing. Price, postpaid, 40c.

PETTY'S PERFECT POULTRY PUNCH—All steel nickel plated. Punches clean hole; right size, will not bruise foot. Price, 25c, postpaid.

PREMIER POULTRY LITTER

Vacuum Cleaned
Saves Time, Labor, Money

It is a natural absorbent, capable of taking up and holding four or five times as much moisture as straw, shavings or sawdust, and therefore acts as an insulator and humidity control. It prevents spread of disease not only because it keeps the house dry and clean, but because it is sanitary-free from bacterial and parasitic life. Is absorbs offensive odors and helps keep down the ammonia fumes in the droppings. It is harmless to birds if eaten by them. It provides a resilient cushion over the floor so that birds will not develop bumble foot.

It reduces fire hazard. It requires no breaking up, is easy to spread, and may be left in the poultry house for several months. Peat Moss is one of the best humus or mulch products known to horticulture, and with addition of poultry droppings it becomes a fertilizer of the finest type. Per bale of 11 bushels, \$1.75 each; per bale of 22 bushels, \$2.75 each. Ask for prices on larger lots.

The Reliable Gas Brooder

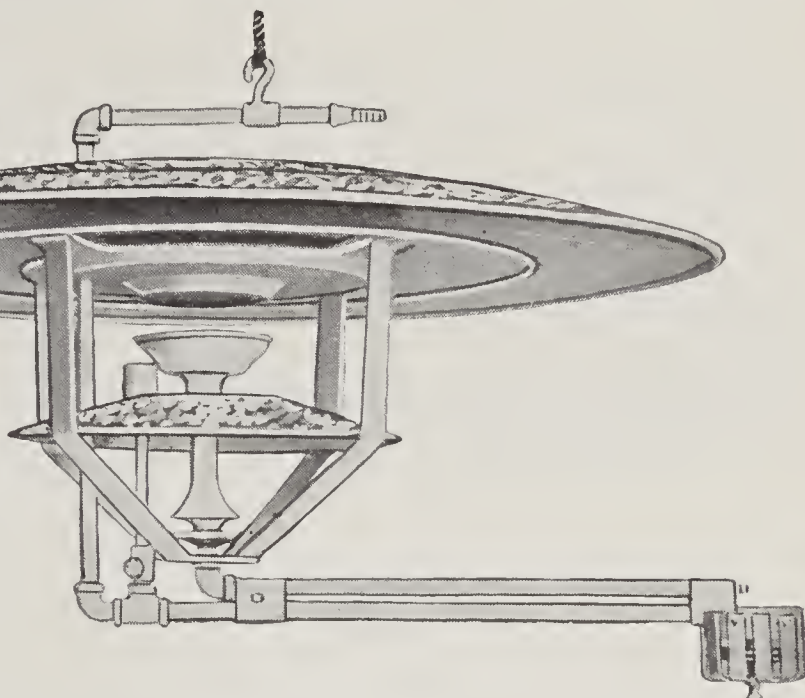
The Reliable Gas Brooder is the result of years of exhaustive experiment on the poultry ranch and scientific mechanical development in the reliable factory. Practical and economical in operation, low in first cost and of pleasing appearance, this brooder has attained great popularity.

Constructed of the best quality galvanized copper bearing iron, reinforced around the edge with heavy wire. The canopy is pressed from one piece of seamless metal, making it extremely durable, rigid and properly shaped. The Reliable Brooders are equipped with Baffle Plate below the burner, which eliminates the fire hazard, and permits hanging the brooder closer to the floor, throwing the heat further out and over the backs of chicks. This new safety feature means a great saving in fuel and insures a more uniform heat for the chicks. The brooder is also equipped with suspension brackets which permit the easy removal of the burner for cleaning.

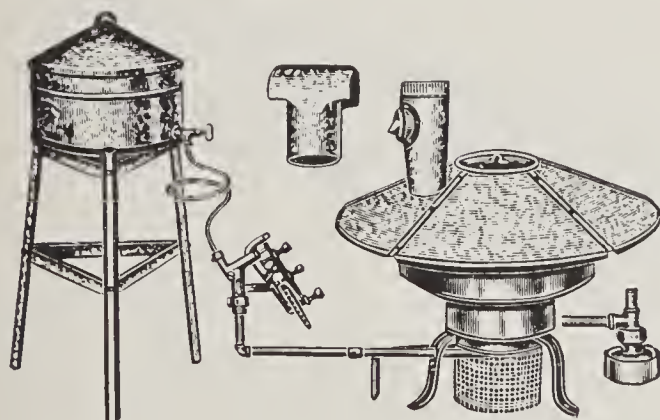
New type burners with hot point flame furnish ample heat. This type insures perfect combustion before the flame comes in contact with the steel plate. The separate pilot light burns constantly with a clear blue flame, and is not easily extinguished. During the heat of the day the thermostat shuts off the main burner, and when temperature lowers, the gas starts flowing automatically, and is ignited by the pilot.

No. 500—36-Inch. Capacity 500 Chicks.....	Price \$13.50
No. 700—48-Inch. Capacity 750 Chicks.....	Price 16.00

Shipping weight 23 lbs. and 30 lbs. respectively.



The Reliable Gas Thermostat is equally efficient with all kinds of gas. The double wafer is extremely sensitive to the slightest change. The valve and seat are made of brass, so shaped that they cannot stick and will wear indefinitely. The working parts are protected from damage by a metal cage.



HUDSON OIL BURNING BROODER No. 132

Safety, Efficiency, Dependability, Durability, Convenience

This brooder is built from the Number 10 Stove with the addition of a 32 inch reflector canopy, with top-opening cover for easy burner inspection. It is of the room heater type—a style which is becoming more popular with the use of special brooder houses. In this system of brooding the chicks range over brooding floor at will, finding the exact comfort they individually want. Recommended capacity 300 to 600 day-old chicks in buildings up to 10x12 ft. Room size determines brooding capacity, for Hudson Brooders are oversize in heat producing power due to practical efficiency in every part—valve, burner, drums, canopies and hovers.

Drum, 19½ in. diameter, 6 in. depth, 23 gauge blue steel. Combustion chamber, 9 in. diameter, 10½ in. length, 18 gauge, 6 gallon oil tank. Overall height, 23 inches.

No. 132—Brooder. Completely equipped except for oil tank stand	\$12.00
Stand for oil tank, each .....	.95

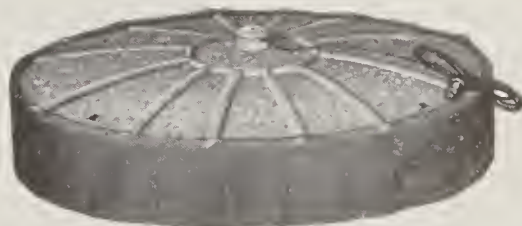
HUDSON THERMOSTAT WAFERS



A compound, solid post wafer that responds instantly to temperature variations. Absolutely accurate and dependable. Fits all standard makes of brooders, both coal and oil type.

No. 33—Size 3 inches for coal brooders.....	30c each
No. 33—For oil Brooders	30c each

HUDSON ELECTRIC HOVER BROODER



Just the right size for those who hatch or buy only a few chicks. It will take care of 100 chicks or less, giving the same advantage as the large poultry raiser has with his larger equipment.

It is heated with a light bulb, using very little equipment. Galvanized canopy 24 inches in diameter. Price, each \$2.85.

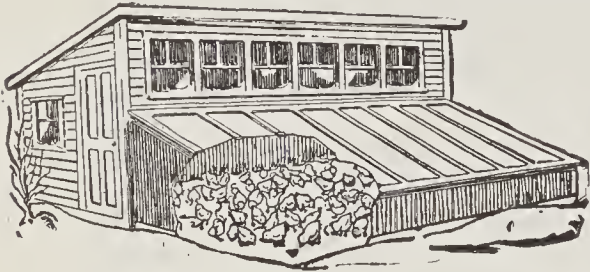
RELIABLE GAS THERMOSTAT

This Gas Thermostat is simple to install on your brooder, and easy to operate. It is equally efficient with all kinds of gas. The double wafer is extremely sensitive to slightest temperature change, and is thoroughly tested before it leaves the factory to insure reliability at any brooding temperature. No rubber or composition in the construction of this Thermostat. The valve and seat are made of brass, so shaped that they cannot stick, and will wear indefinitely. The working parts are protected from damage by a metal cage. Price, each \$5.00.

Poultry Supplies (Cont.)

VIO-RAY WINDOW FABRIC

Vio-Ray is made with a new coating process which assures longer life. Is nearly 100% moisture-proof and has greater flexibility. It is weatherproof and does not rot like ordinary cloth window materials. Vio-Ray transmits the ultra-violet rays of the sun, which increase egg production, save baby chicks, and promote health and growth in animal, plant and human life. It is used for poultry houses, hog houses, cold frames, hot beds, porches, dairy barns, rabbit hatches, etc. Price per square yard, 25c; 25-yard roll, 36 inches wide, at 22c per square yard, postpaid.



CEL-O-GLASS

Now With A Five Year Guarantee

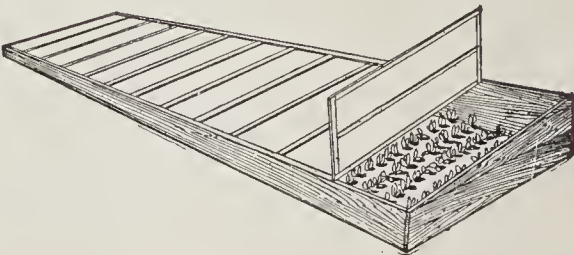
The real glass substitute for poultry houses, chicken coops, brooder coops for windows, greenhouses, hot beds, cold frames. Is hail-proof, snow-proof, wind-proof, practically indestructible. Easy to put on; no putty or costly sash bars—just tack in place from rolls three feet wide and any length to 100 feet. Made from best grade screen wire and holes are filled in with a preparation that resists rain, hail, snow or wind.

We have this in two sizes, 36 inches wide and 28 inches wide at 13½c per square foot. If ordered in rolls of 25 running feet the price is 13c per square foot. F. O. B. Tulsa or Muskogee, Oklahoma.

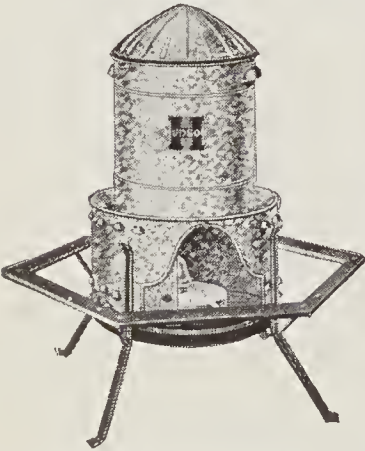
FLEX-O-GLASS

A glass substitute.

Used for poultry houses, hotbeds, cold frames, sleeping porches, etc. Water-proof, dust-proof, weather-proof. Chicks raised under genuine Flex-o-Glass get highest percentage of Ultra-Violet Rays. Develop strong, healthy bone and bodies. They are free from weak legs and other dreaded diseases and require less time and attention. Flex-o-Glass withstands snow and sleet. Won't break or shatter. 10-yard roll 36 inches wide, \$2.75 each; 15-yard roll 36 inches wide, \$3.85 each. Postage or express extra.



HUDSON HEATED WATERER



Hudson Heated Waterer

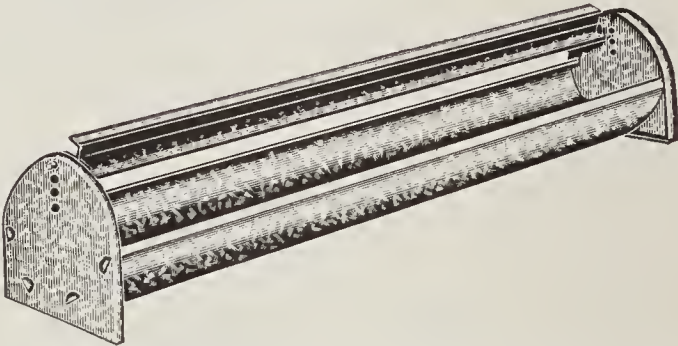
Controlled by float valve arrangement, keeping the water at exactly the right level in the drinking pan. It is as easy to fill as a bucket. Made of heavy galvanized rust-resisting copper alloy steel sheets.

8 gallon with single burner flueless lamp, each, \$6.50.

8 gallon equipped for electric heat (no bulb furnished), each, \$7.50.

Stands can be furnished for above fountains at \$2.00 each.

ADJUSTABLE FEEDERS

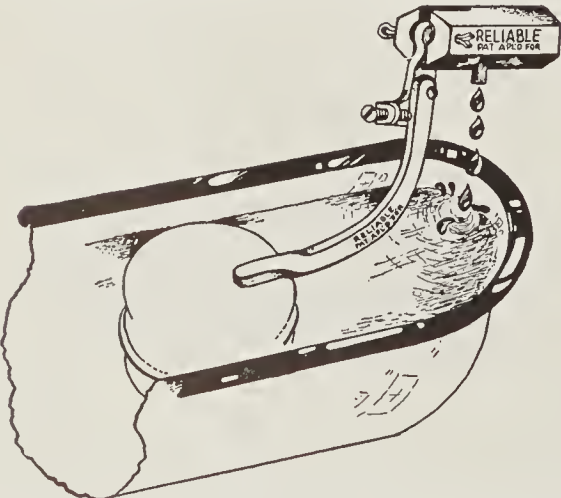


A new improved feeder using a round bottom trough in two lengths suitable for day old to six weeks old chicks. Feed moves to center as used and remains clean to the last speck. Adjustable to 4 useful positions on shouldered reel pins for instant spinning.

No. 324—24-inch length.....	each 35c	dozen \$4.00
No. 336—36-inch length.....	each 50c	dozen 5.50

THE EVER-READY FLOAT VALVE

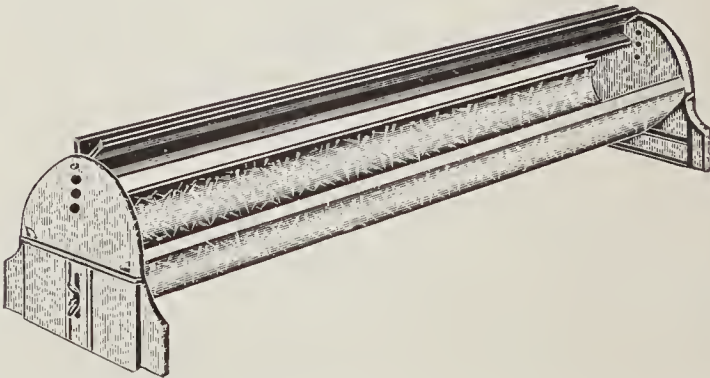
Positive Shut-Off—No Springs



The valve is constructed of solid brass and copper with rubber valve washer. Copper float is small, for use in narrow troughs, and can be thrown back out of the way when cleaning container.

Float arm is adjustable so that water level can be changed without moving pipe. The valve washers cost less than 1c each and can be replaced without removing valve from water pipe.

Valve seat is so constructed that sand or other foreign matter will not prevent valve from shutting off. Price, \$1.05 each.



New Sanitary Round Trough with new 4-blade all metal reel adjustable to 4 positions. A unique feeder with rigid stands, adjustable quickly with one wing nut, and free spinning 4-blade. 4 position reel easily adjusted as the chicks grow.

No. 436—36-inch length	each 65c
No. 448—48-inch length	each 80c

Poultry Supplies (Cont.)

HUDSON CHICK FOUNTS

Bottom Fill Types

Tank snaps securely into pan and the whole fountain may be then carried full of water without spilling or running over. Tank fills easily when inverted because of flat space at top. Ribbed cone prevents roosting.

No. 01—5 Quart, each	\$.50
No. 02—2 Gallon, each .....	.60
No. 03—3 Gallon, each .....	.80

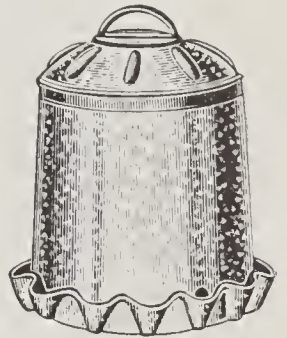
HUDSON HANDY FILL CHICK FOUNTAIN

Made of heavy galvanized iron. Top has two-way swinging bail for carrying when filled. One-piece drinking pan has smooth rolled edges. Easy to fill—easy to clean.

Two-Gallon Size, each	\$.95
Three-Gallon Size, each	1.25



Hudson Handy Fill Chick Fountain



Hudson Chick Fount



Hudson Insulated Fountain

HUDSON INSULATED FOUNTAIN

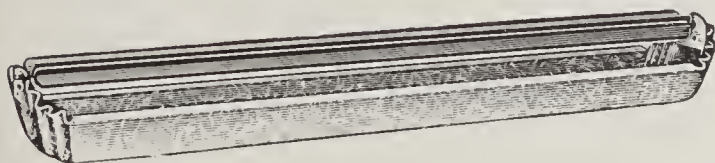
This Fountain operates on the fireless cooker plan. In the winter it is filled with water at about 100 degrees Fahrenheit. The insulated jacket cover is then slipped into place and locked into position by the special latch. THAT IS ALL. No clamps, valves or corks to adjust and pull out. Water placed in fountain at 100 degrees with the outside temperature at zero will remain unfrozen for many hours. This fountain is very desirable for use in hot weather as it will keep the water cool for a considerable time.

PW6—6 Gallon Capacity, each.....	\$4.25
PW3—3 Gallon Capacity, each.....	3.65

Four-inch bases for above fountains can be furnished at 60c extra for the 3-gallon and 80c extra for 6-gallon.

We carry a complete line of Poultry Foods. Write us for special low prices.

HUDSON'S "LEADS-ALL" CHICK FEEDERS



The "Leads-All" is not the conventional type of small low priced feeder. Troughs, 1 1/8 inch depth, 2 5/8 inch bottom width and 4 inch top width. Every trough with feed saving lip curved for chick safety and feed economy. 4 blade reel. Reels spin freely, prevent caught or injured chick toes, and are suited for feeding even to broiler size.

R218—18-inch length.....	20c each	\$1.65 dozen
R224—24-inch length.....	25c each	2.10 dozen

CHARCOAL TIN FEEDER

New popular priced feeder or waterer for buttermilk, medicine feed or water. 4 blade red enameled reel, adjustable to two positions.

No. 224T—24-inch length.....	40c each	\$4.25 per dozen
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HUDSON FLOCK FEEDERS

Eleven inches wide and 5 1/2 inches deep. Rolled edges prevent billing out and waste of feed.

No. 48—8 feet in length, each.....	\$4.75
No. 45—5 feet in length, each.....	3.40

TOP ZOL

Prepared rat bait. Ready for instant use. This is made from red squill and relatively harmless to man, domestic animals, poultry, dogs and cats. Package of 10 baits for 15c.

GOLD LEAF TOBACCO POWDER

Controls round worms in poultry. Contains not less than 1% nicotine, and requires 2 lbs. Gold Leaf Tobacco Powder to 100 lbs. of Laying Mash. 2-lb. pkg., 25c; 10-lb. pkg., 90c.

F. AND E. CHICK PICK REMEDY

At the first sign of cannibalism you should use some F. and E. Chick Pick Remedy, a blood colored non-injurious ointment. One taste is enough to discourage the most persistent cannibal. This is not a new product, but one that has been tried and proven for five years. 4-oz. size, 25c; 8-oz. size, 40c.

HUDSON CHICK FEEDERS

With Balanced "S" Type Reel



A strong, well built feeder for small flocks. Full 1 1/8 inch depth, 2 5/8 inch bottom width, 4 inch top width, with feed saving lip curved for chick safety and feed economy. Reel spins freely, prevents caught or injured chick toes.

No. 101—10-inch length.....	10c each	\$1.10 dozen
No. 105—15-inch length	10c each	1.50 dozen

DAY OLD CHICKS



We are prepared to furnish choice stocks of live and growing Chicks from the Freeman Hatchery. Prices gladly quoted on request.

Poultry Remedies

IODINE VERMICIDE FOR INTESTINAL WORMS OF POULTRY

Various species of intestinal worms are present on most poultry farms. Worm infested poultry do not develop as rapidly as they should and the pullets cannot produce eggs as economically as those free of parasites.

Prevention is always the best method of controlling worm infestation, but many badly infested pullets are housed in the fall. As a precautionary measure, progressive poultry raisers now worm their pullets before housing them. Increased egg production and lowered feed consumption pay good dividends on this investment.

In several of the official egg laying contests each entry is dosed with Iodine Vermicide as a regular procedure and excellent results are reported. Iodine Vermicide is a highly concentrated suspension of colloidal iodine (Chandler) sold in one pound and one-half pound bottles only. Some of the most successful breeders have used it for years in preparing their pullets for egg laying contests.

No anthelmintic exists which will accomplish the proper results when mixed with feed for flock treatment. Individual dosing is therefore required. It is absolutely necessary for the Iodine Vermicide to be administered directly into the gizzard, which is easily accomplished when using the one-man method of dosing with our improved dosing appliances.

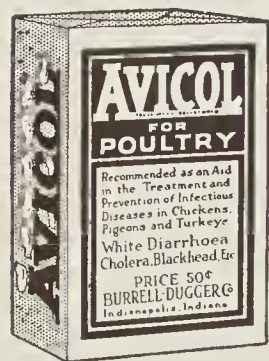
Do not fast the birds prior to dosing as this is not necessary. Grain in the crop makes dosing easier although the crop should not be too full.

COST. It only costs 3 cents a dose for mature pullets and half as much for younger birds. The subsequent egg production and saving in feed indicate the relative cheapness of Iodine Vermicide as against other vermicides used for this purpose regardless of price. A 1-lb. bottle of Iodine Vermicide properly diluted will dose 125 chickens, 2 lbs. or over, or twice as many young chicks.

Iodine Vermicide has many advantages not possessed by other products.

- (1) It kills worm eggs and coccidial oocysts with which it comes in contact. No other vermicide does this.
- (2) It furnishes additional iodine for nutritional purposes.
- (3) Has no harmful effect upon the poultry even if duodenal coccidiosis is present.
- (4) It does not throw birds off egg production and retard development.

½-lb. bottles, \$1.90 each; 1-lb. bottles, \$3.40 each.



Most people lose half of every hatch and seem to expect it. Chicken cholera or white diarrhoea is the trouble.

Avicol is easily given in the water for either the prevention or treatment. Thousands of poultry raisers who have used Avicol are unanimous in their praise of it. Price, 50c; large size, \$1.00—holds

2½ times the 50c size.

WALKO WHITE DIARRHEA REMEDY

Don't wait until White Diarrhea has taken half of your hatch. Prevent it. There is no place where the old adage "A stitch in time saves nine" applies as well in getting ahead of disease. There is scarcely a hatch without some infected chicks. Don't let these few infect your entire hatch. Give WALKO in all drinking water for the first two weeks and you won't lose one chick where you have lost dozens.

Regular size, 50c; extra large pkg., \$1.00. The dollar pkg. contains 2 1/3 times as much as the 50c package.

SODIUM FLOURIDE FOR CHICKEN LICE

United States Government recommends new chemical. Destroys even young lice as they hatch.

Poultry raisers need guess no longer as to the best method of getting rid of poultry lice. After many tests, the U. S. Department of Agriculture has found Sodium Flouride superior to any other preparation for this purpose. They say it kills both old and young lice, including unhatched lice present at the time of treatment. Full directions are on every can of S. F. for use in three ways, either by dip, dusting, or pinch methods. Prices: ½-lb. can, 15c; 1-lb. can, 25c; 10 lbs., \$2.35, postage extra.

Group-Over

The Over-Night Roup Remedy

Group-Over clears the air passages with magic quickness. Gets rid of the mucous and catarrhal discharges.

Promptly controls the disease and exerts an antiseptic, soothing, healing action on membranes.



Can be used either for individual treatment of severe cases, or administered as a vapor to several birds at the same time, or can be placed in the drinking water as a preventive for the whole flock. Regular size bottle, 50c.

Large size, 3 times 50c size, \$1.00.

C-A WORM CAPSULES

A Parke Davis Product

One treatment kills both large roundworms and tapeworms in chickens and turkeys. Individual treatment is recommended by practically all poultry authorities. C-A Worm Capsules are so easy to give that 200 or more birds can be treated in an hour. Parke Davis booklet on Poultry Worms mailed on request. Capsules are packed 50 in a package.

No. 195—For young birds.....Per pkg. \$.90

No. 196—For adult birds.....Per pkg. 1.25



DON SUNG

Don Sung (Chinese for egg laying) is a scientific tonic which improves the hen's health, makes her stronger and more active and tones up the egg-laying organs.

Don Sung is easily given in feed, and costs nothing to try. It is used by thousands of successful poultry raisers the world over.



Regular size, 50c. Large size, \$1.00; holds 3 times the 50c size. Special size, \$5.00; holds 6 times the \$1.00 size.

PINJECTOL FOR PIN WORMS AND BLACKHEADS

The Gizzard Capsule will frequently clean out all pin worms. But no product given by mouth can be depended on to expel pin worms if, as is frequently the case, the entrances to the ceca are so inflamed and swollen, or the ceca are so plugged with fecal material, that the drugs cannot reach the pin worms. Pinjectol, an oil easily administered by rectal injection with a Lee Poultry Dosing Syringe, can be depended upon to expel the pin worms. Government scientists and Department of Agriculture officials have given this method of eliminating pin worms unqualified approval.

The pin worm is recognized as a serious thing in the spread of Blackhead. For this reason all poults and turkeys should be wormed once a year with Pinjectol. Get our free folder, Pin Worms and Blackhead in Chickens and Turkeys. 12 oz. bottle 75c.

Poultry Remedies (Cont.)

LEE'S GERMOZONE

Marvelous for Poultry

Without a doubt, Germozone is the most widely used poultry remedy on the market today. Its unusual popularity is due entirely to the merit of the product. Germozone is especially valuable in preventing and controlling the diarrhoeas and digestive disorders of little chicks and grown fowls. The regular use in the drinking water every other day is a big factor in preventing disease among poultry.

12-oz. bottle, 75c; 32-oz. bottle, \$1.50.

LEE'S FLU-KOFF EMULSION

12-oz. bottle, \$1.00.

Lee's 64-page Book on Poultry Diseases mailed on request.

LEE'S VAPO-SPRAY

Treat the Whole Flock

Diseases of the breathing passages spread rapidly. One sick bird is a warning that others are very likely infected and will come down unless all are correctly and promptly treated. With Vapo-Spray the whole flock is treated as one, and at small expense, with this latest scientific treatment. Simply spray in the air of the henhouse at night. All the birds breathe the vapor of its healing oils. Quart, 75c; ½ gal. \$1.25.

LEE'S LICE LIQUID

A double-barrel Killer—Destroys Lice and Mites.

It is designed to kill both lice and mites with one easy application and without individual handling of the birds. It works while the birds sleep. Simply paint the roosts and dropping boards liberally with full strength Lee's Lice Killer about thirty minutes before the flock goes into the poultry house for the night. The fumes rising from this preparation kill the body lice. For mites Lee's Lice Killer should be sprayed into all cracks, crevices, joints of walls, roosting places and nest boxes. Quart cans, 60c; gallons, \$1.50, f. o. b. cars.

CARBOLINEUM

Used for Three Distinct Purposes

1. Preserves wood everywhere against rot and decay and adds at least 100% to the life of fence posts, poles, sills, floors, bridge timbers, porches, wood imbedded in concrete, etc. On account of its nice brown color it is also a suitable wood preserving stain for shingle roofs, bungalows, cottages, farm buildings, silos, ice houses, boat houses, garages, poultry houses and hog pens.

2. Kills Chicken Mites in poultry houses. Apply once a year. **GUARANTEE**—We guarantee that one thorough application of Avernarius Carbolineum either by brush or sprayer to the interior walls, dropping boards, roosts, etc., to such buildings, after a previous cleaning and no matter whether they are of wood, tar paper, or plaster, will exterminate mites in the same **FOR A WHOLE YEAR**.

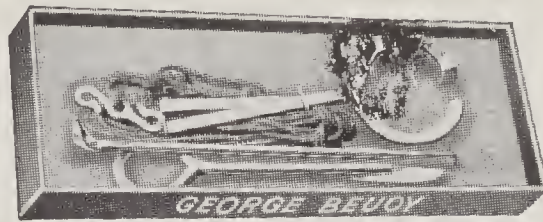
3. Avernarius Carbolineum assures positive protection for wood against the ravages of Termites, White Ants, and all other destructive vermin. Avernarius Carbolineum spreads quickly and effectively. A little goes a long way. It is not costly, and a very small investment will give you assurance that your dwelling, barns and other buildings and fences, etc., are safe from destruction.

Ask for quantity prices.

CAPONIZING SETS

CAPONIZING SETS. Poultrymen can double their profits by caponizing. The operation is very simple, and the instructions are so full and explicit that any man, woman or child, after careful reading, will be able to perform the operation. It is highly successful from every point of view. The object in caponizing is to greatly increase the weight of the fowls, causing them in many cases to grow as large as turkeys, and weigh from 10 to 15 pounds, and the meat is of fine flavor, sweet, juicy, and tender.

Ask for the lowest price when in the market for any of our Poultry Foods.



BEUOY'S SPOON SET

The Spoon Set contains Combination Tissue Hook, Probe and Gland Remover, made of compressed aluminum. Each combination used at one time in order named without necessity of three different instruments. Price, \$2.50.

EGG CARTONS

Pasteboard holds 1 dozen. \$1.00 per 100; \$8.50 per 1000.

CHALK NEST EGGS

They look like real hen's eggs. They are made from pure sterilized sulphate of lime. This product is well known among poultry raisers for its value in keeping nests in clean, healthful condition. These eggs do not break or crumble. Price per dozen, 50c, postpaid.

ASL VACCINES AND BACTERIN

For prevention of Fowl Pox, Cholera, Tracheitis, Typhoid and Roup and Colds in Poultry.

ASL is a thoroughly reliable line and is manufactured by the American Scientific Laboratories. Booklet mailed on request.

ASL FOWL POX VACCINE—For the prevention of pox (sorehead) and diphtheria (canker). Use Chicken Strain for vaccinating growing chickens and turkeys and other fowl before maturity for lifetime immunity. Use Pigeon Strain for lifetime immunity in pigeons; also for emergency vaccination of mature chickens. Produces a milder take usually sufficient for short time immunity and avoids serious setback in birds of laying age. Each package complete with brush for application. 100 doses, 90c; 500 doses, \$3.75.

ASL MIXED BACTERIN (Avian)—For the prevention and treatment of bacterial infections accompanying Roup, Colds and similar conditions in chickens, turkeys, pigeons and game birds. This original ASL Mixed Bacterin is simple and safe to use at any time. (Syringe not included. See below.)

60 cc, \$1.00; 125cc, \$2.00; 250 cc, \$4.00. 2 or more 250 cc size at \$3.00 each.

ASL CHOLERA-TYPHOID BACTERIN—For the prevention and treatment of fowl cholera (hemorrhagic septicemia) and fowl typhoid occurring either singly or associated in the same flock.

60 cc, \$1.00; 125 cc, \$2.00; 250 cc, \$4.00. 2 or more 250 cc size at \$3.00 each.

ASL All-Metal 5 cc Syringe Outfit—recommended for bacterins. Nothing to break or get out of order, \$1.50.

Extra needles for poultry bacterins, 22g ½-inch, 25c each.

CHIC-TONE INHALANT

Baby chicks are reared, broilers are fattened, pullets are matured and flocks are kept in crowded conditions today! Colds and bronchitis are highly contagious. Remember that our INHALANT was originally developed for feeding station use. Here birds are crowded together deck upon deck. Colds and bronchitis—once caught—spread like wildfire. Our INHALANT controls this condition and packers continue to be among our best customers.

Literally thousands of sick birds taken from laying batteries, from exhibition coops, from confinement in poultry houses—wheezing and gasping noisily—considered hopeless cases by their owners, are being quickly restored by the Chic-Tone method.

For treating and preventing colds and bronchitis in Baby Chicks, Pullets, Cockerels and Mature Birds. Used exclusively at the World's Fair, 1933. Chic-Tone for the drinking water. Inhalant sprayed in the air.

Pints, 60c; quarts, \$1.00; gallons, \$3.50.

Poultry Foods

PERFECTION BRAND SCRATCH FOOD—For laying hens; keeps them in good health the year around. Produces good results. Our Poultry Food is made of good, sound grains and seeds, all cleaned and screened before mixing, and is without dust, meal, or waste of any kind. Market prices.

SURE EGG LAYING MASH—An excellent egg-producer; strong in egg-making qualities; nothing like it to make hens lay in winter. Market prices.

GROUND BEEF SCRAPS—Feed three times a week at the rate of about a handful to every three birds in the morning meal of hot food, or keep in a hopper before the fowls, allowing them free access all the time Lb., 5c; 25 lbs., 85c; 30 lbs., \$1.60; 100 lbs., \$3.50.

FINE GROUND BONE—For mixing once a day with soft food, this is unsurpassed. Lb., 10c; 10 lbs., 50c; 100 lbs., \$2.50.

PERFECTION CRUSHED OYSTER SHELL—To a large extent, will supply the necessary material for grinding their food and at the same time the lime for egg shells. Chemical analysis, together with the reports from experienced poultry men, show that ordinary grain and green food supplied to the laying hens do not contain enough lime for egg shells. It requires several times as much lime as is ordinarily fed, if good, strong egg shells are to be produced. Crushed oyster shells will supply this lime, if kept continually before the fowls, trusting them to eat the amount necessary. 50 lbs., 55c; 100 lbs., 85c.

PERFECTION BRAND CHARCOAL—Specially prepared for poultry. Feeding charcoal purifies the blood, prevents disease, and is a sure cure for sour crop, diarrhoea, etc. Put up in two grades, fine granulated, for use in mash mixture, and coarse for hopper feeding. Lb., 10c; 25 lbs., 75c; 50 lbs., \$1.25.

PERFECTION BRAND CHICK STARTER

The feed chicks need during the first six weeks after hatching. It contains Y-O (Yeast and Cod Liver Oil) and minerals. Reduces the mortality in the flock, makes strong bones, firm flesh and healthy birds. A good feed at a reasonable price.

Conkey's Buttermilk Starting Feed

The Original—Makes Husky Chicks

A ready prepared feed for baby chicks and all self-feeding young fowls. Composed of buttermilk, pinhead oatmeal, a special wheat middlings, whole cornmeal, corn feed meal and granulated bone. Contains all elements needed for safely starting baby chicks, ducklings, goslings, poults, pheasants, quails, grouse, etc.

FEED IT FIRST EIGHT WEEKS

Conkey's is all the chicks need the first eight weeks except greens, charcoal, grit, clean water, and some fine scratch grains in the litter for exercise. Give grit and water from the start. During the second week add green stuff and in the fourth week finely cracked chick grains, like CONKEY'S CHICK GRAINS. Write for prices.

Conkey's White Diarrhea Remedy will prevent the most fatal of all diseases of young chicks, 60c. Roup remedy, 60c. Cholera remedy, 60c. Add 5c for postage.

CONKEY'S FEEDS

It's not the first cost—but it's what is in the bag that makes the profit.

Conkey's Buttermilk Growing Mash now vitalized with Y-O.

STONEMO GRANITE POULTRY GRIT

"Scarce as hens' teeth" is an old saying. You have often heard this old adage, but did you ever stop to think how true it really is **THAT HENS NEED TEETH?** It's true—nature did not put teeth in the chicken's bill, but nature did provide for the grinding of food—with grit—in the gizzard. Without hard, insoluble granite grit in the gizzard the hen cannot grind, or chew, its food any better than a toothless person.

Think this over. There is a great difference in the various chicken grit. The best poultry grit must be hard as flint, rough, so as to grind, or chew, all food consumed. The food as it passes through the gizzard must be ground finely, to be digestible—ground very much like corn grain is ground between flinty stones to make cornmeal. The best poultry grit must be insoluble in acid. For instance, if you put the grit you may be using in a glass of vinegar, and it dissolves, you may be sure it would also dissolve in the chicken's gizzard, and not serve as grit. A lack of hard, insoluble grit in your flock will induce feather pulling, cannibalism, litter eating, indigestion, improper use of feed; consequently light weight and poor production.

We carry this in three sizes, Chick, Pullet and Hen. 25-lb. bags 35c; 50-lb. bags 65c; 100 lbs. \$1.15, f. o. b. Tulsa.

EPSOM SALTS—Lb., 10c; 10 lbs., 60c; 100 lbs., \$4.00.
TOBACCO DUST—Lb., 10c; 25 lbs., \$1.75; 100 lbs., \$5.50.
PERMANGANATE OF POTASH—Lb., 50c; 5 lbs., \$2.25.
DRIED BUTTERMILK—Lb., 15c; 25 lbs., \$2.50; 100 lbs., \$9.50.

COMMERCIAL SULPHUR—Lb., 10c; 25-lb. lots, \$1.75; 50 lbs., \$2.50.

HYDRATED LIME—40-lb. sack, 45c.
MINERAL GRIT FOR PIGEONS—Lb., 4c; 100 lbs., \$1.90.
TOBACCO STEMS FOR PIGEON NESTS—5c per lb.
MIXED PIGEON FEED—Ask for prices.
PURE COD-LIVER OIL—\$1.50 per gallon.

PERFECTION LAYING MASH—20% Protein with Dried Buttermilk. Made from the A. & M. formula. A real feed at a low price. Prices gladly quoted on request.

PERFECTION GROWING MASH makes husky chicks. With Conkey's Y-O (Yeast and Cod Liver Oil). A growing mash at a reasonable price that will produce satisfactory results. Price on request.

CONKEY'S 32% SUPPLEMENT

For those who desire to mix their own feeds we carry in stock Conkeys 32% Protein Supplement. Ask for prices on Bran, Shorts, Ground Oats, Corn Meal and our entire line of ingredients for mixing your own Mash.

Use Fertilizer for Bigger and Better Crops

SWIFT'S RED STEER FERTILIZERS

We can quote attractive prices on one bag to a carload. The following are carried in stock:

	Nitrogen	Phosphate	Potash
RED STEER	4%	8%	6%
RED STEER	4%	8%	10%
RED STEER	4%	12%	4%
SUPER PHOSPHATE		20%	

Prices gladly quoted on request.

SULPHATE OF AMMONIA. Used for its nitrogen. Very desirable for all plants in which leaf development or rapid growth is desired. Lb., 5c; 25 lbs., 80c; 100 lbs., \$2.75.

NITRATE OF SODA. A fertilizer very quick in action and hastens the maturing of crops. Lb., 5c; 25 lbs., \$1.00; 100 lbs., \$3.00.

BLOOD MEAL. Lb., 10c; 25 lbs., \$1.25; 100 lbs., \$4.50.

MURIATE OF POTASH. Used for its ability to increase fiber development in plants, to hasten maturity and to increase the size and weight of all root crops. Lb., 5c; 25 lbs., 90c; 100 lbs., \$3.25.

RAW BONE MEAL. An excellent dressing for garden crops and flowers. Supplies phosphates. Lb., 5c; 25 lbs., 90c; 100 lbs., \$3.00.

Prices subject to change without notice. Write for prices on larger lots.

SHEEP MANURE

Is a highly concentrated weedless manure uniformly pulverized. It is safe and highly dependable for home lawns

and gardens. For lawns, use 6 to 10 lbs. to 100 square yards and rake into surface soil. For gardens mix a handful under each new plant, more for shrubs. For old plants, use 12 lbs. per 100 square feet.

Price: 25 lbs., 70c; 50 lbs., \$1.25; 100 lbs., \$2.00; 500 lbs. at \$1.90 per 100 lbs., f.o. b. cars, Tulsa.

ADCO

(Registered Trade Mark)

Mixed with leaves, cuttings, vines, weeds, straw, corn-stalks, etc., ADCO converts them into rich, real manure, sanitary, odorless, and free from weeds. This artificial manure is real manure, not a mere compost. It is fully equal to the farmyard product in fertilizing power, but free from foul odor, flies, etc. The process is perfectly simple and not at all laborious.

Home Gardeners, by using their refuse, can now have plenty of manure at low cost and little trouble.

Farmers, by utilizing straw, corn stalks, etc., can secure their manure without the expense and labor maintaining live-stock.

Vegetable Growers can turn back into their soil as rich manure the stalks, cuttings, vines, leaves, etc., heretofore wasted.

Florists, Nurserymen and Fruit Growers can convert leaves, etc., into valuable fertilizer for their plants, trees and bulbs. 25-lb. bag, \$2.50.

CAL-CARBO

The Sensational New High
Calcium Feeding Supplement

Makes All Feeds and Pasture
Give Maximum Feeding Results

DAIRY COWS

The dairy cow is the hardiest animal on the farm. At one and the same time she is expected to produce from 15 to 50 pounds or more of milk daily, develop a calf that will be born alive, strong and thrifty, and maintain her own health and vigor so she can carry on these tasks year after year with little or no rest.

To do all these profitably, the dairy cow must have an adequate and constant supply of certain necessary substances. And one of the most important of these substances is calcium.

Calcium is the principal mineral element in the skeleton, in the unborn calf, and in milk. Yet with the exception of some legume hays, calcium is lacking in practically all feeds.

Cal-Carbo is 98.99% pure calcium carbonate plus other vital minerals, and because of its flour fineness, Cal-Carbo dissolves instantly and digests easily with no waste.

Cal-Carbo is required in all livestock rations.

CAL-CARBO—Price per 100 lbs., \$0.80. If interested in quantities ask for special prices.

BEEF CATTLE

The high feeding value of Cal-Carbo in beef cattle rations is shown in the three-year tests conducted at the Kansas Experiment Station. At a cost of only 18 cents per head, profits were increased as much as \$7.69 per head on beef calves when small amounts of Cal-Carbo were added to the prairie hay ration. This was even a bigger profit than was returned on a similar lot fed alfalfa. Tests conducted at the Oklahoma and Nebraska Experiment Stations confirmed these remarkable results.

Low grade roughage, with Cal-Carbo added, gives alfalfa results in making beef and produce gains at much lower cost.

Silage alone, when supplemented with Cal-Carbo, is a satisfactory roughage for cattle on which profitable gains can be made.

Cal-Carbo makes pasture and range grass more efficient, just as it increased the efficiency of prairie hay in the Kansas tests.

Cal-Carbo even increases the efficiency of alfalfa and lowers the cost of gains per 100 lbs. of beef. This reduction in cost is equal to ten times the cost of the Cal-Carbo fed.

Cal-Carbo-fed cows produce large, strong, thrifty calves because Cal-Carbo is to the bones of an animal what cement is to a concrete foundation.

Cal-Carbo fed to young stock supplies the necessary bone-building calcium for producing rapid growth and large strong frames on which future profits largely depend.

Cal-Carbo prevents and often remedies many common deficiency disorders such as creeps, nutritional abortion, milk fever, bone and stick chewing.

Cal-Carbo costs less than 2c per head a month to feed beef cattle on full feed, and only a fraction of a cent per head a month for range cattle . . . yet profits are increased many dollars.

SWINE

Hog raisers can increase average daily gain over 50%, and the amount of feed required per 100 lbs. gain can be reduced nearly a hundred pounds, when Cal-Carbo is added to the ration of fattening hogs on dry lot. These outstanding results were shown in a test made by the Ohio Experiment Station, which reports: "The mere addition of 2 lbs. of ground limestone to 100 lbs. of a mixture of corn, middlings, oil meal and salt fed on dry lot, made the difference between a reasonable degree of success and failure". In another test the Ohio Station says: "Ground limestone, even more than alfalfa, caused pigs to make rapid gains."

Cal-Carbo fed to brood sows insures more pigs to the litter, stronger and more vigorous litters, and a greater number reaching weaning time with good weight and ability to make rapid gains. Cal-Carbo-fed brood sows have an ample supply of milk for the litter and at the same time maintain their own strength and health. Cal-Carbo prevents posterior paralysis which causes the loss of some of the best brood sows.

IODIZED CALCIUM CARBONATE

Iodized Calcium Carbonate is manufactured by a wet process by which every calcium particle is thoroughly coated with Iodine held in place by chemical-physical combination.

The inclusion of traces of Iodine in livestock feeds increases their digestibility, thus enabling cattle, hogs and sheep to make more milk, meat and wool, and hens to produce more eggs and better eggs, harder shells and high hatchability.

Price per 100 lbs. 85c. Ask for quantity prices.

PERFECTION MINERAL MIXTURE For Cattle

Composed of Steamed Bone Meal, Iodized Calcium Carbonate, Iron Oxide, Manganese Sulphate and Salt.

Mix two pounds per 100 lbs. of feed, or place in a container so that it is available at all times. When fed in containers it is necessary to supply common salt separately in order that animals will not consume more of the mineral mixture than is needed. Per 100 lbs. \$2.25.

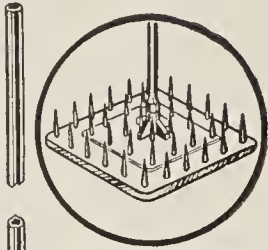
PERFECTION BRAND BERMUDA ONION PLANTS

Immediate shipment can be made from our growing station in Texas.
They may be set in the open field as early as you plant Onion Sets. Ask for prices on large quantities.

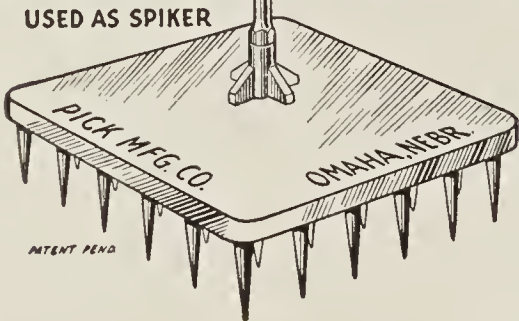
YELLOW BERMUDA PLANTS at 35c per 100; \$1.25 per 1,000; \$5.00 per 6,000, delivered by express.
CRYSTAL WHITE WAX PLANTS, 35c per 100; \$1.50 per 1,000; 6,000 for \$6.00, delivered by express.

SPIKE-TAMP

AN INDESTRUCTIBLE
ALL METAL TOOL
MADE OF QUALITY
MATERIALS.
WEIGHT 11½ POUNDS
OVERALL LENGTH 4
FT. PLATE 9 INCHES
SQUARE. SPIKES 1¼
INCHES LONG.



USED AS TAMPER



USED AS SPIKER



When seeding or renovating a lawn use no spade, rake or tool other than Spike-Tamp. First distribute the seed and fertilizer, then spike thoroughly. Next tamp the soil to make firm bed, not packed. After this, water frequently with fine spray till grass is strong. This fine tool is comfortable to handle and is quickly converted from spike to tamper and reverse. Price \$3.50 each.



Germaco
Hotkaps
New Method of
Plant Protection

A Money-maker—matures crops earlier; shields plants from frost, wind and rain; protects them from insects; miniature “hot-houses”. An amazing invention—crop INSURANCE. A revolutionary device that saves farmers much in time labor and money. Carton of 1,000, \$9.75; 5,000 at \$9.65 per 1,000. Trial package of 100 with Papier Mache Setter and Steel Tamper, \$2.40 each. Package of 250 with Papier Mache Setter and Steel Tamper, \$3.65 each. Steel Setter and Tamper, \$1.50. Papier Mache Setter, 50c each. Steel Tamper, each 25c.

New size HOTKAP Home Garden Package consists of 25 HOTKAPS complete with sturdy cardboard setter for 50c.

FIGARO LIQUID SMOKE

guarantees the most delicious meat you ever ate, and is the easiest, quickest and safest way to smoke it.

ABSOLUTELY EVERYTHING necessary to smoke, sugar-cure, flavor, and preserve meat is in the bottle ready to apply.

THE RICH, delicious taste of browned sugar blended with the zest of pure wood smoke and the spicy tang of real black pepper puts the savor of “Ole Virginny” into every cut of ham and slice of bacon.

KEEPING QUALITIES beyond belief. Age doesn’t spoil it, but only improves its flavor.

FIGARO’S PURITY and effectiveness are guaranteed. It has been on the market over twenty-five years, giving perfect satisfaction to its users.

REGARDLESS of the methods used in curing meat, an application of **FIGARO LIQUID SMOKE** should be used to insure delicious, wholesome meat the year round.

32 oz. bottle, \$1.50; 16 oz. bottle, \$1.00; 8 oz. bottle, 50c; 4 oz. bottle, 30c.

Village Blacksmith Garden Tools

SHORT HANDLE GARDEN SET

This little short handle set is particularly convenient for working around borders. The handles are approximately three feet long.

Per set of three95c



GARDEN TOOLS

Green Enameled. Heavy Steel
Set of 3—One of each above for 55c, postpaid.



No. T4—Garden Trowel20c each



No. T5—Transplanting Trowel20c each

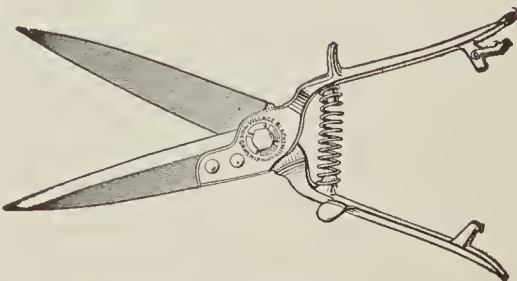


No. W6—Five-prong Weeder20c each



GARDEN TROWEL

Six-inch, one-piece crucible steel blade and socket. Very substantial. Each, 45c.



No. 1 GRASNIP

Length over all, 13 inches. Tempered, full hollow ground cutlery steel blades. Responsive, smooth and easy spring action. Weight, 1 lb. each. Price, 80c each.

Village Blacksmith Garden Tools



NO. 170—WEED AND HEAVY GRASS CUTTER
Crucible steel blade, 13 inches long, 2 $\frac{5}{8}$ inches wide. Heavy steel channel arms, red enameled. Bolted to 31-inch bickory handle. Each \$1.10.

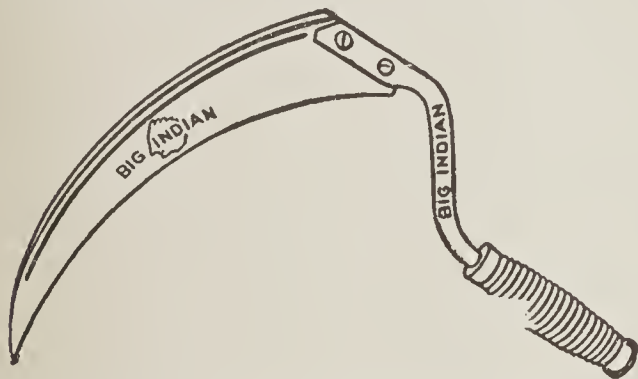
GRASS KING

Scythe pattern, mill finish blade. Each, 50c.



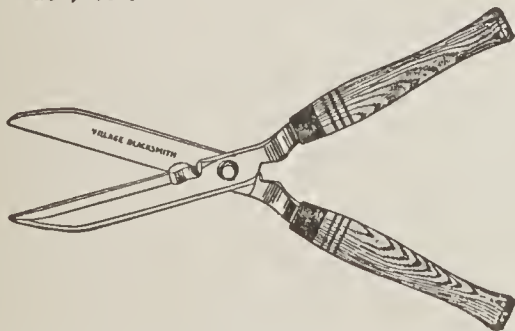
NO. 3—GRASS HOOK

A perfect tool. Patented offset. Swings perfectly in the band with little muscular effort. Forged cutlery steel. Tempered, ground sharp and whetted. Each, 45c.



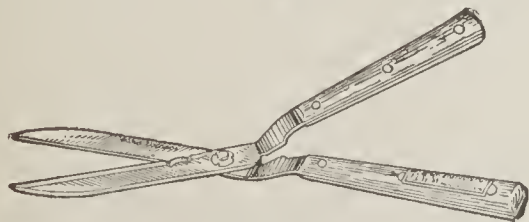
NO. 1—BIG INDIAN GRASS HOOK

Scythe pattern. Tempered crucible steel blade, polished. Heavy aluminum bronzed malleable shank. A tool of best quality. Each, 60c.



No. 108—HEDGE SHEARS

Six-inch blade, 6-inch handle. Serrated cutting edge. A lighter, quicker cutting shear made for new growth hedge, topping shrubs and grass. Each, \$1.30.



TRIMSNIP

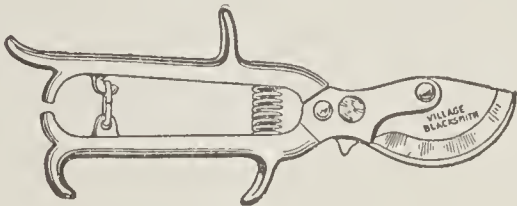
The Modern Hedge Shear. Lighter in weight, stronger in build, smoother in cut. The Trimsnip is eight ounces lighter than the old style hedge shear. Forge built—it is an extremely sturdy tool, comfortable in the band. It can be operated with the least muscular effort.

No. 06—6-inch blade, wt. 1 $\frac{1}{2}$ lbs.....	Each \$1.10
No. 08—8-inch blade, wt. 2 $\frac{1}{2}$ lbs.....	Each 1.85
No. 09—9-inch blade, wt. 3 $\frac{1}{2}$ lbs.....	Each 2.00



No. 6—LONGHANDLE GRASS HOOK
Twelve-inch heavy crucible blade. 43-inch ash handle. Special heavy construction of this hook makes it very serviceable. Each, 85c.

NO. 15—GRASWIP
Cut your grass and weeds without stooping. Cuts both with forward and backward swing. Made of forged tool steel. Length over all, 37 inches. Blade length, 9 $\frac{1}{4}$ inches; width, 1 $\frac{3}{4}$ inches. Each, 90c.



NO. R10—PRUNER

A serviceable sbear; oil spring. Each, 60c.



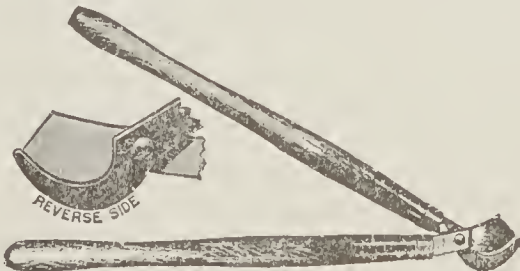
NO. V129—PRUNING SHEARS

Forged cutlery; steel blades; blue steel Volute spring. Each, 75c.



NO. V179—PRUNER

All steel, length 7 $\frac{1}{2}$ inches. Each, 85c.



V20—LONG HANDLE PRUNING SHEARS

Twenty-six inches over all with lock nut. Notched blade. Each, \$1.50.



NO. V2—GRASS SHEARS

Green enameled handle and spring. Straight shank. Each, 50c.



GALLOWAY LITHO. CO. S.F. NO. 1
MADE IN U.S.A.

Plant Vegetables For Table And Market

BINDING-STEVENSON SEED COMPANY

Since 1906

TULSA, OKLAHOMA